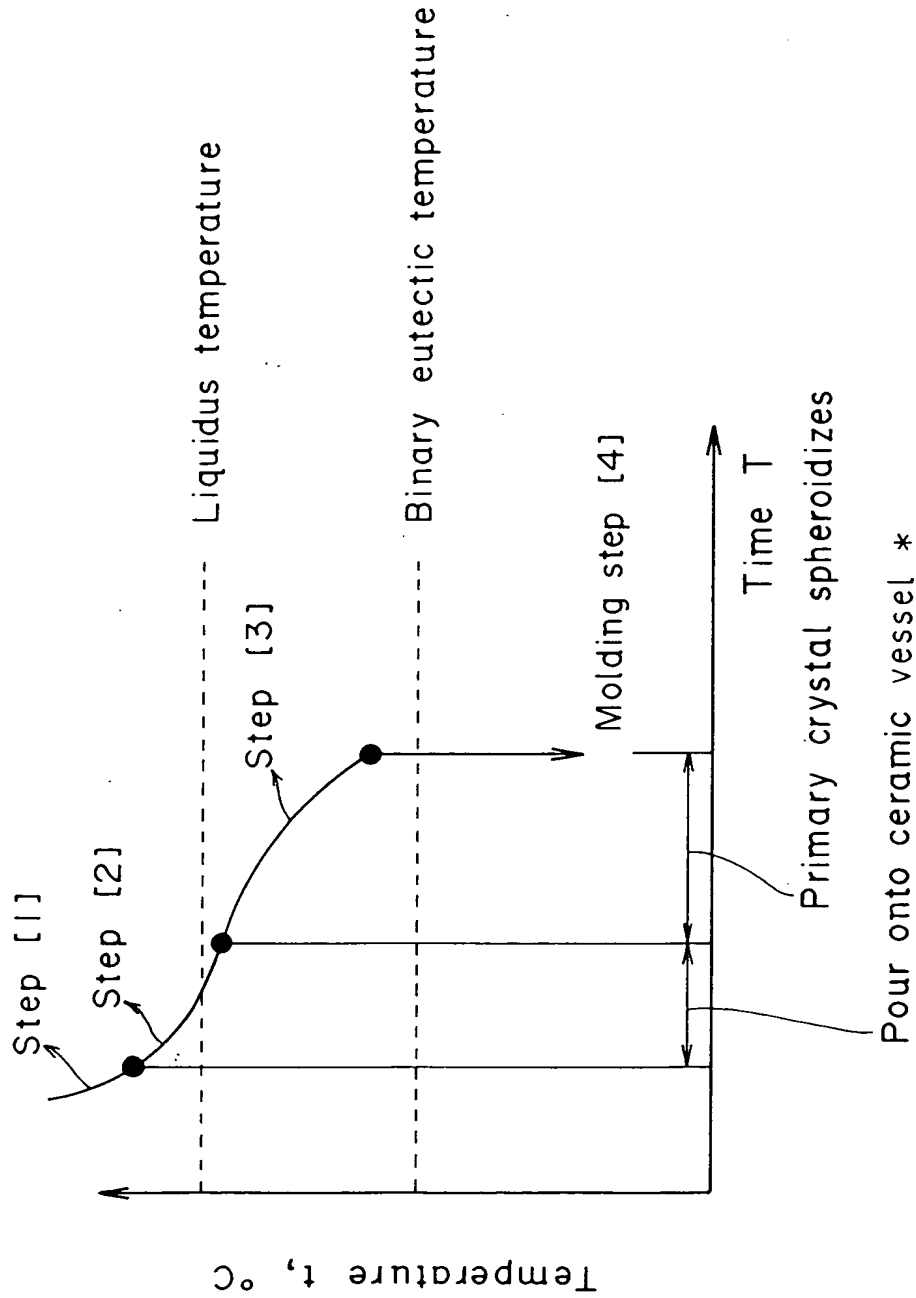
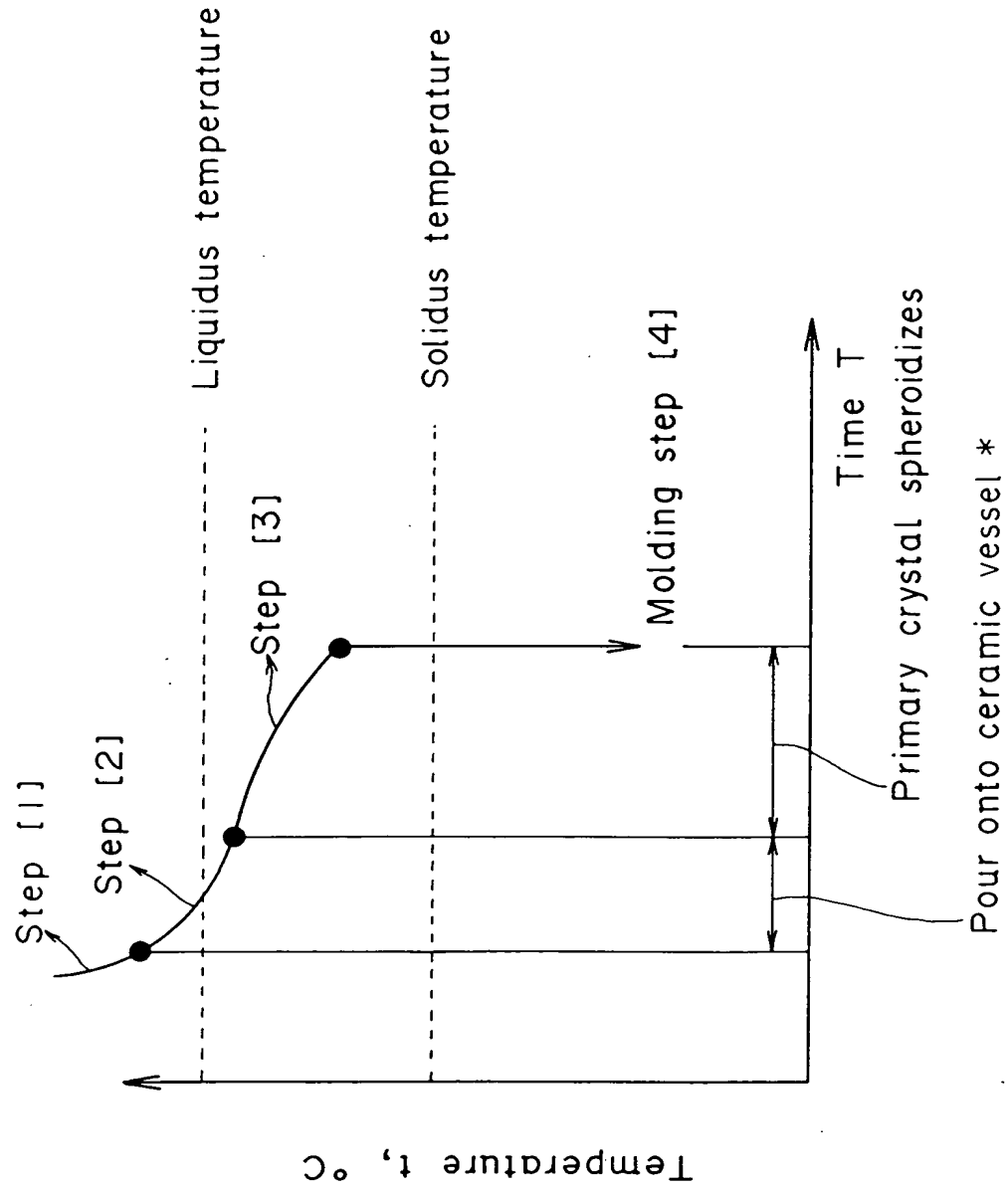


FIG. 1



* With or without cooling jig

FIG. 2



*With or without cooling jig

FIG. 3

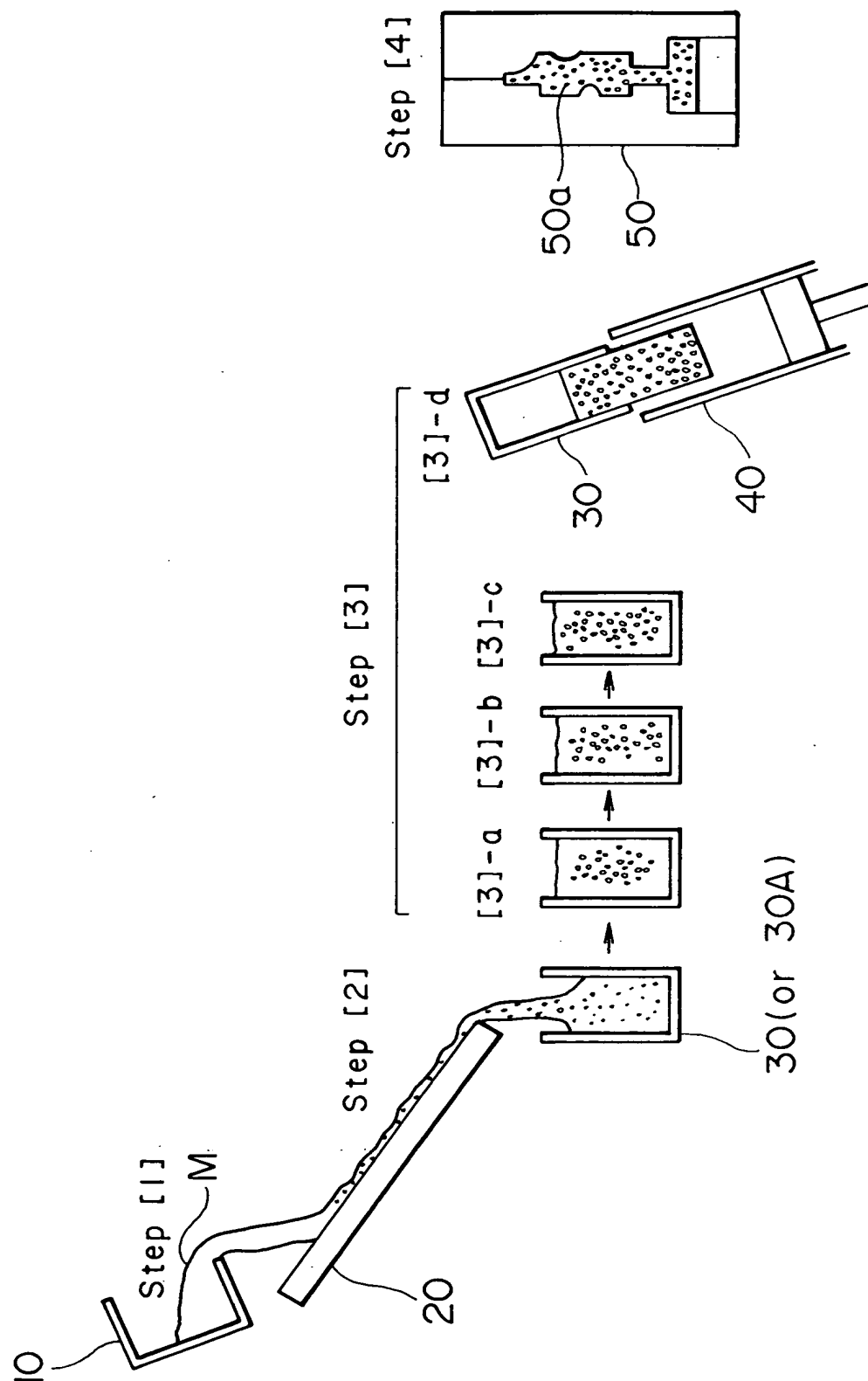
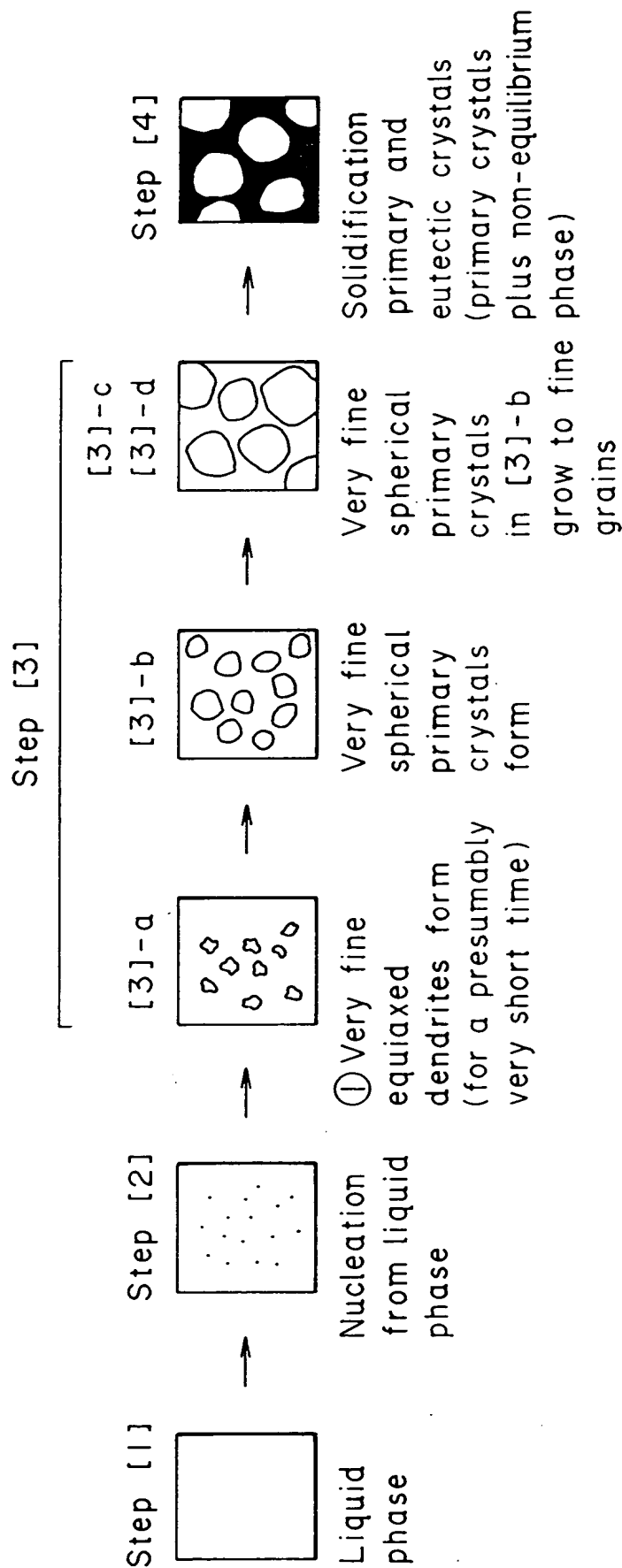
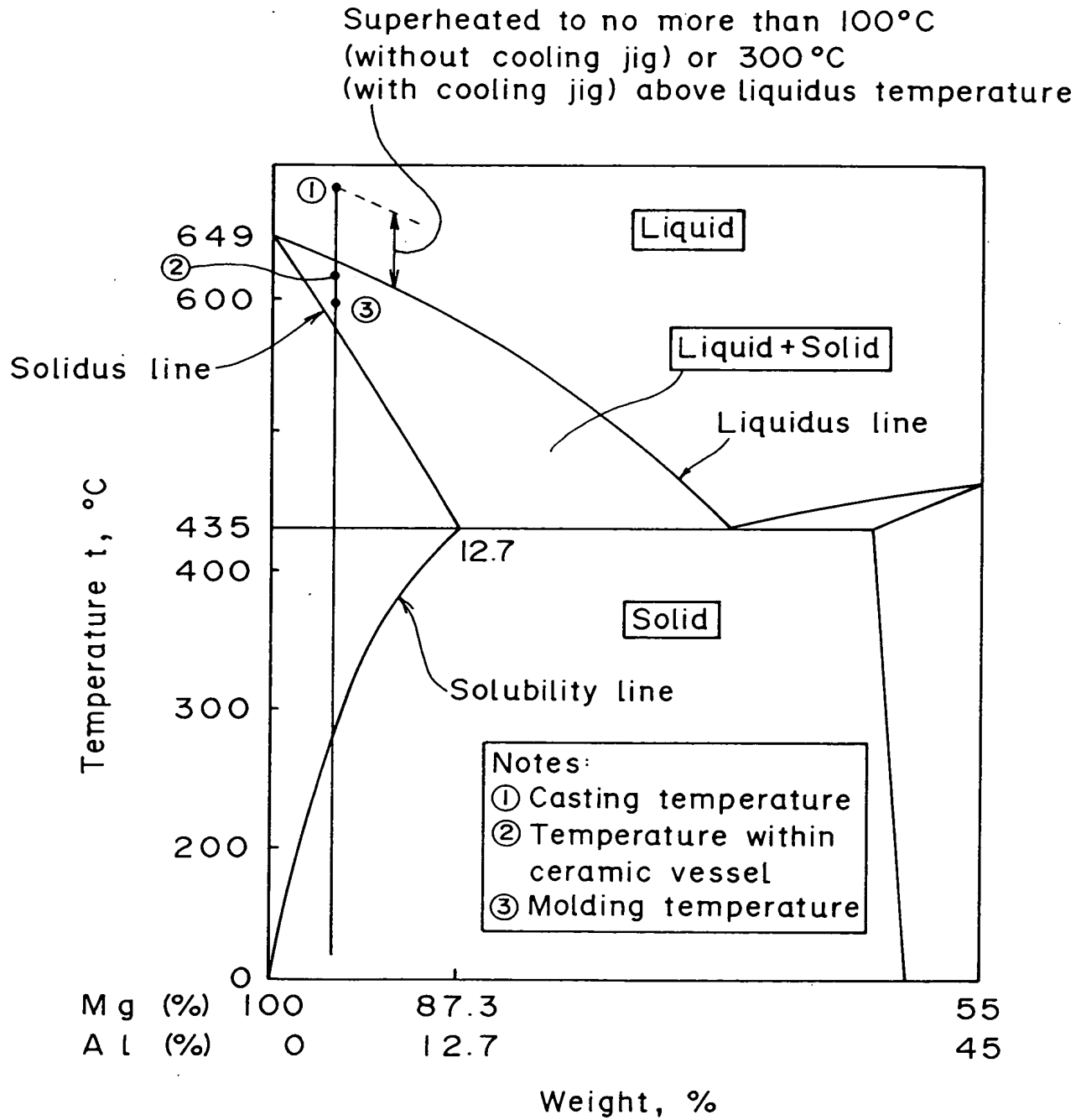


FIG. 4



NR 672378

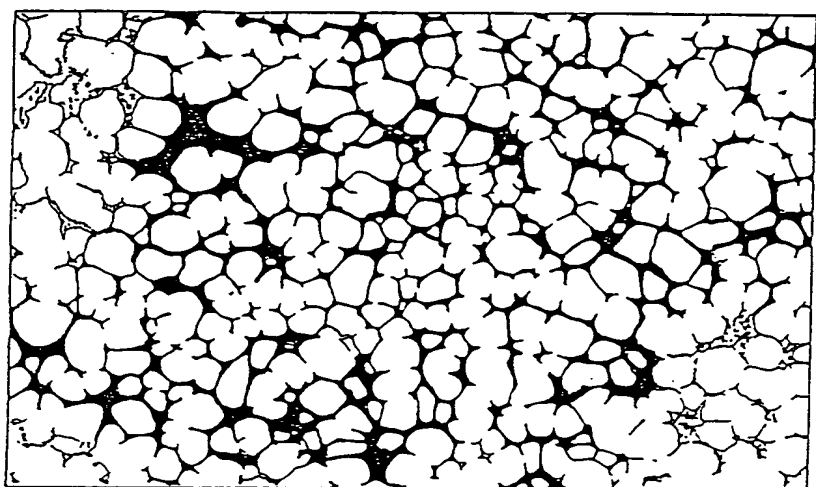
FIG. 6



APPROVED	O.G. FIG.	
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NR 672378

FIG. 7



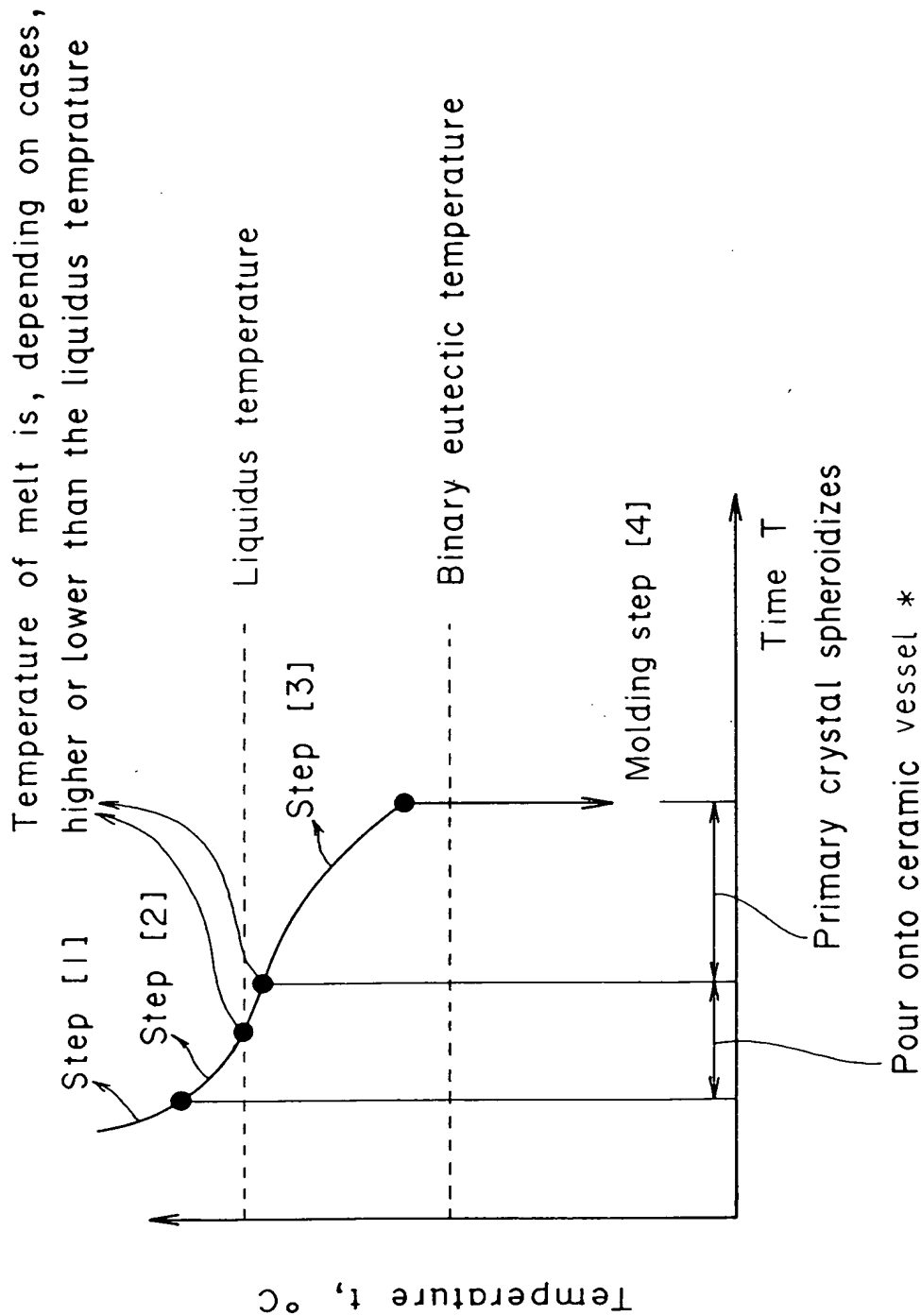
100μm

FIG. 8 Prior Art



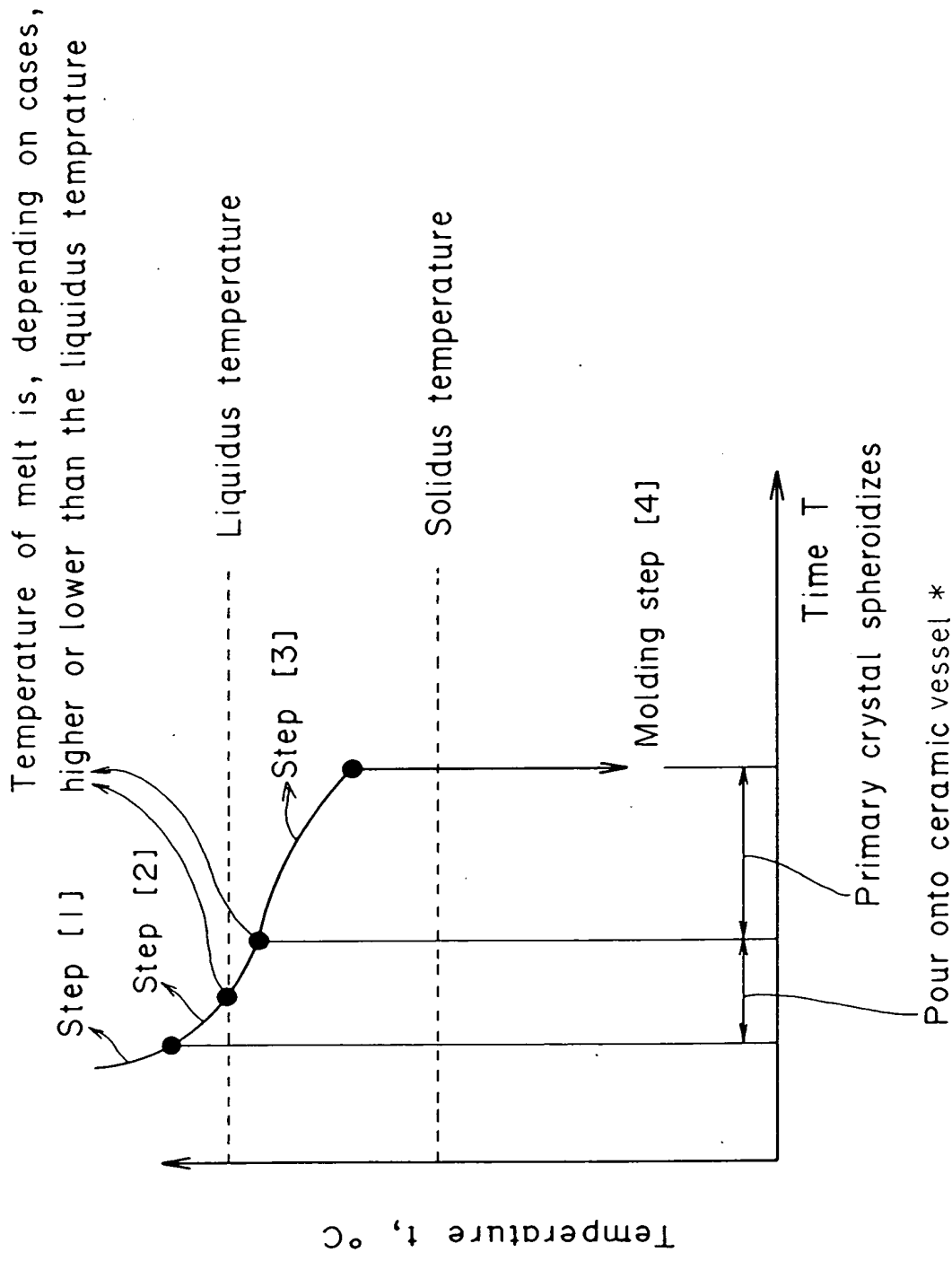
100μm

FIG. 9



*With or without cooling jig

FIG. 10



* With or without cooling jig

FIG. 11

Temperature of melt is, depending on cases, higher or lower than the liquidus temperature

Superheated to no more than 100°C (without cooling jig) or 300°C (with cooling jig) above liquidus temperature

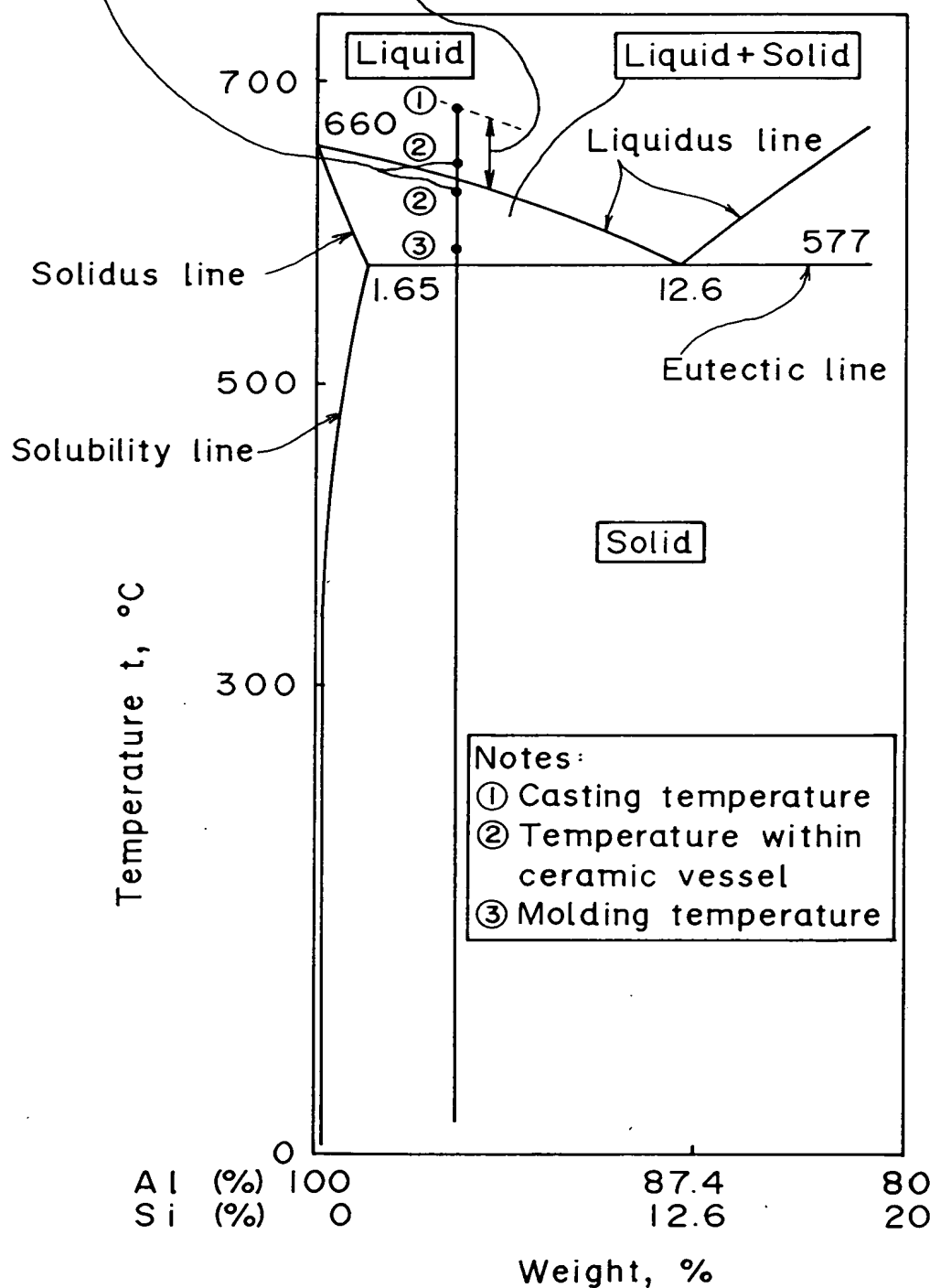


FIG. 12

Temperature of melt is, depending on cases, higher or lower than the liquidus temperature

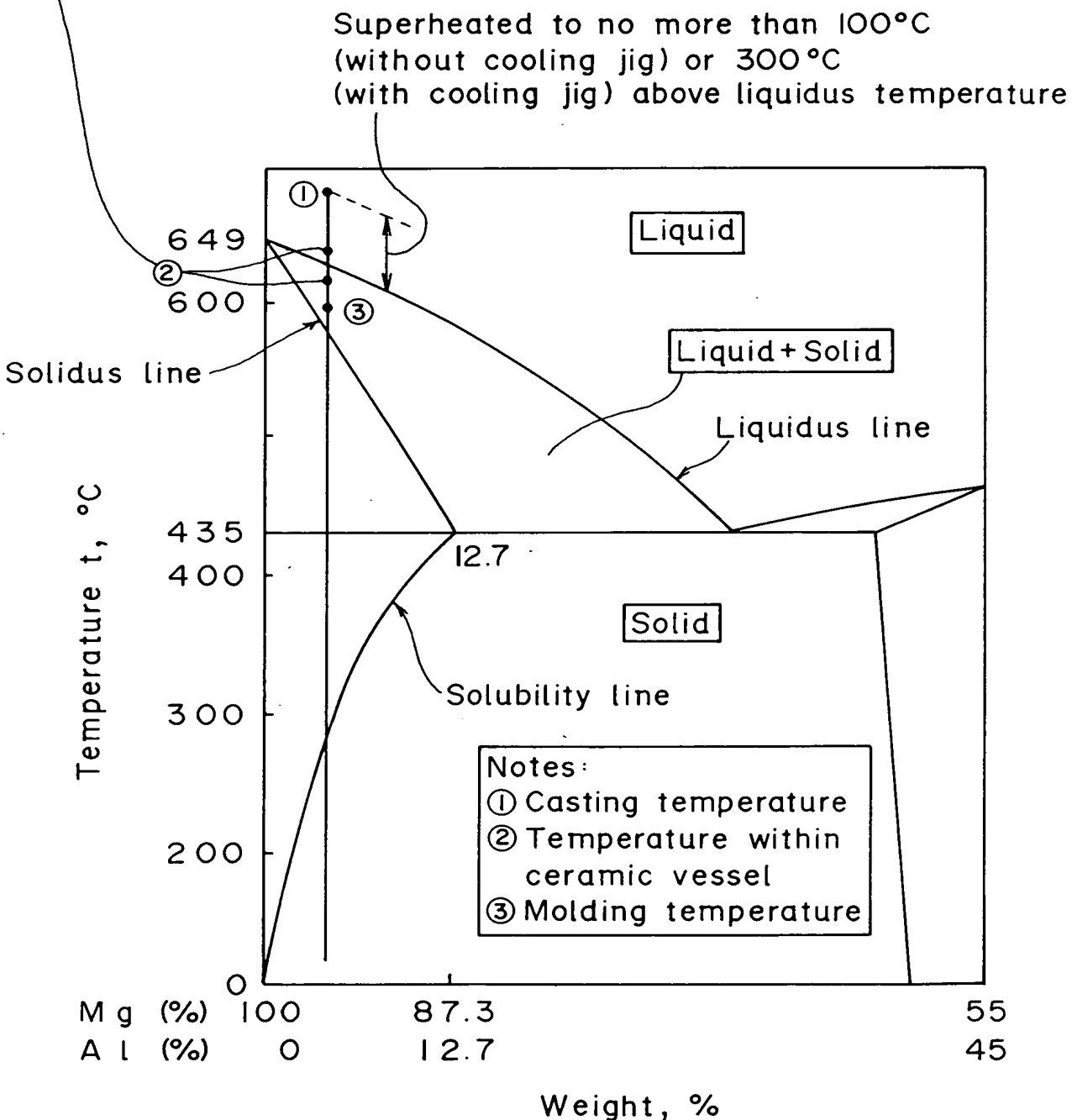


FIG. 13

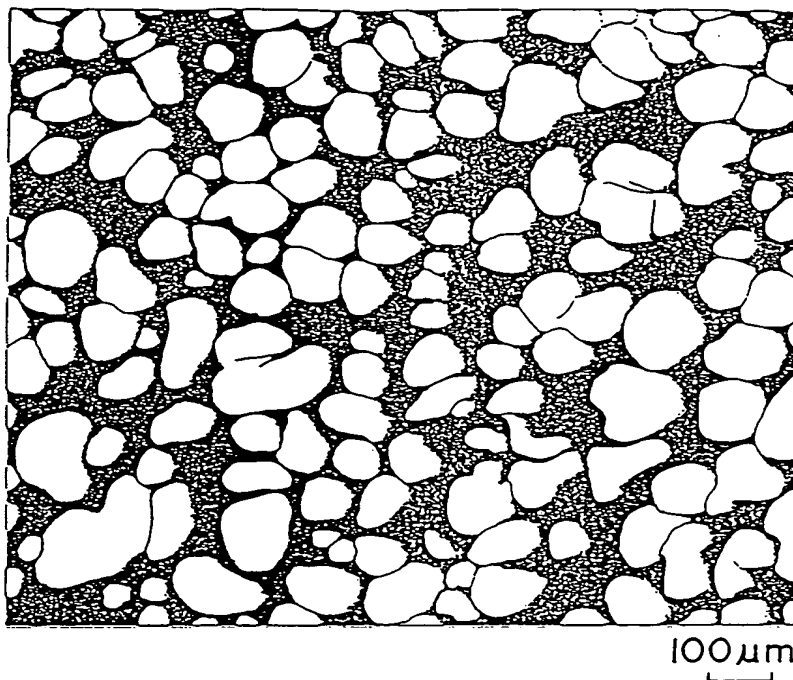
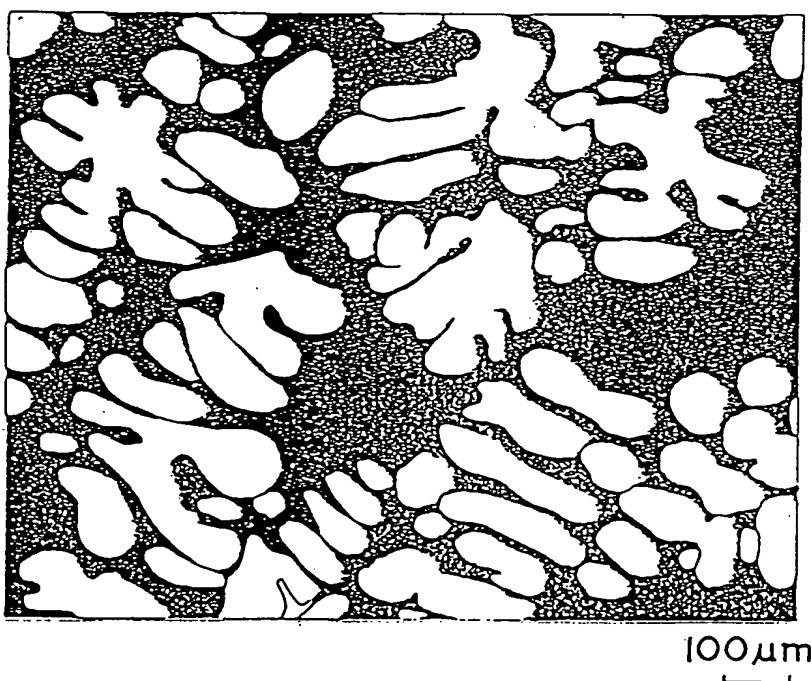


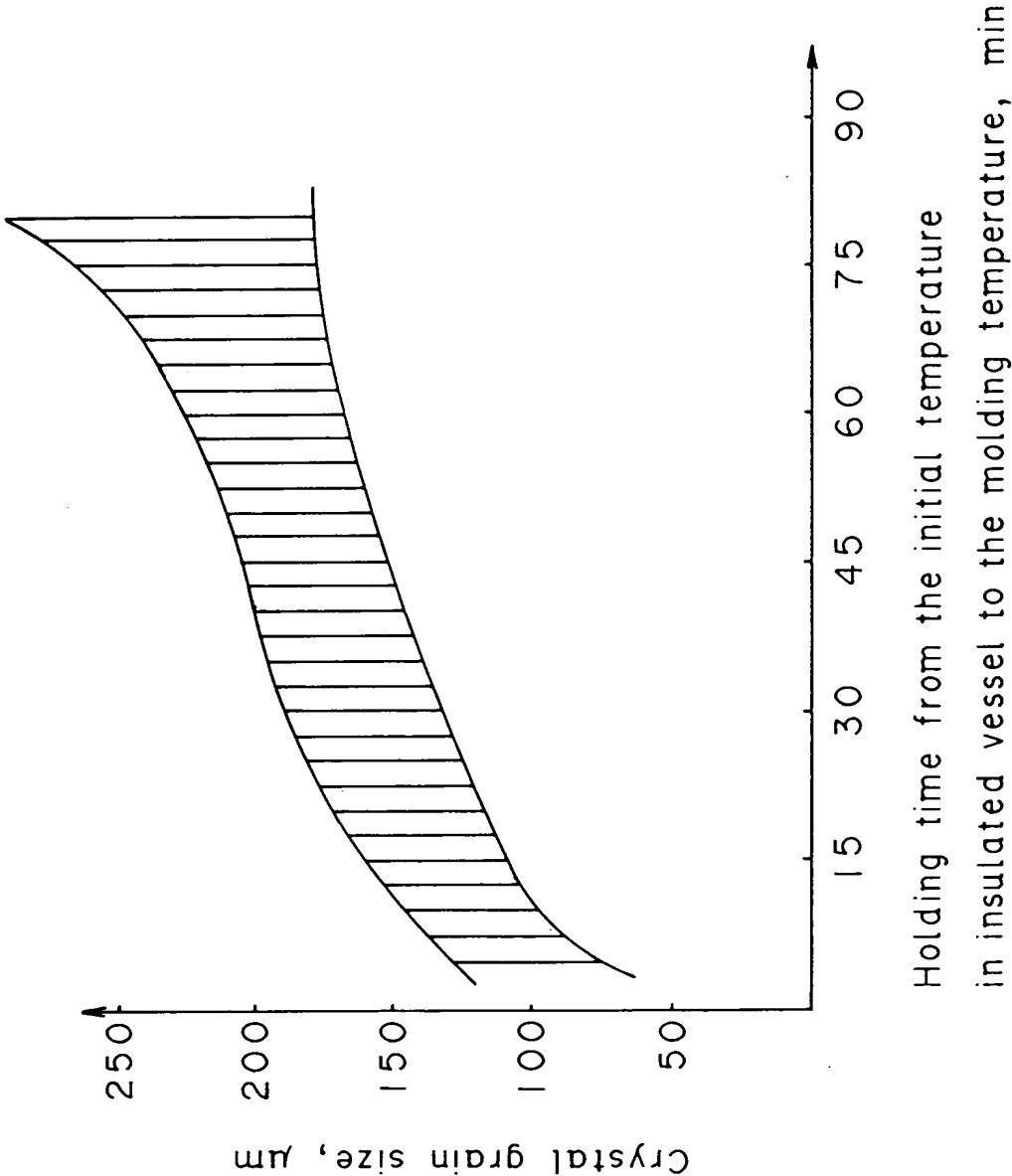
FIG. 14 Prior Art



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672378
 672378

FIG. 15



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

672378

FIG. 16

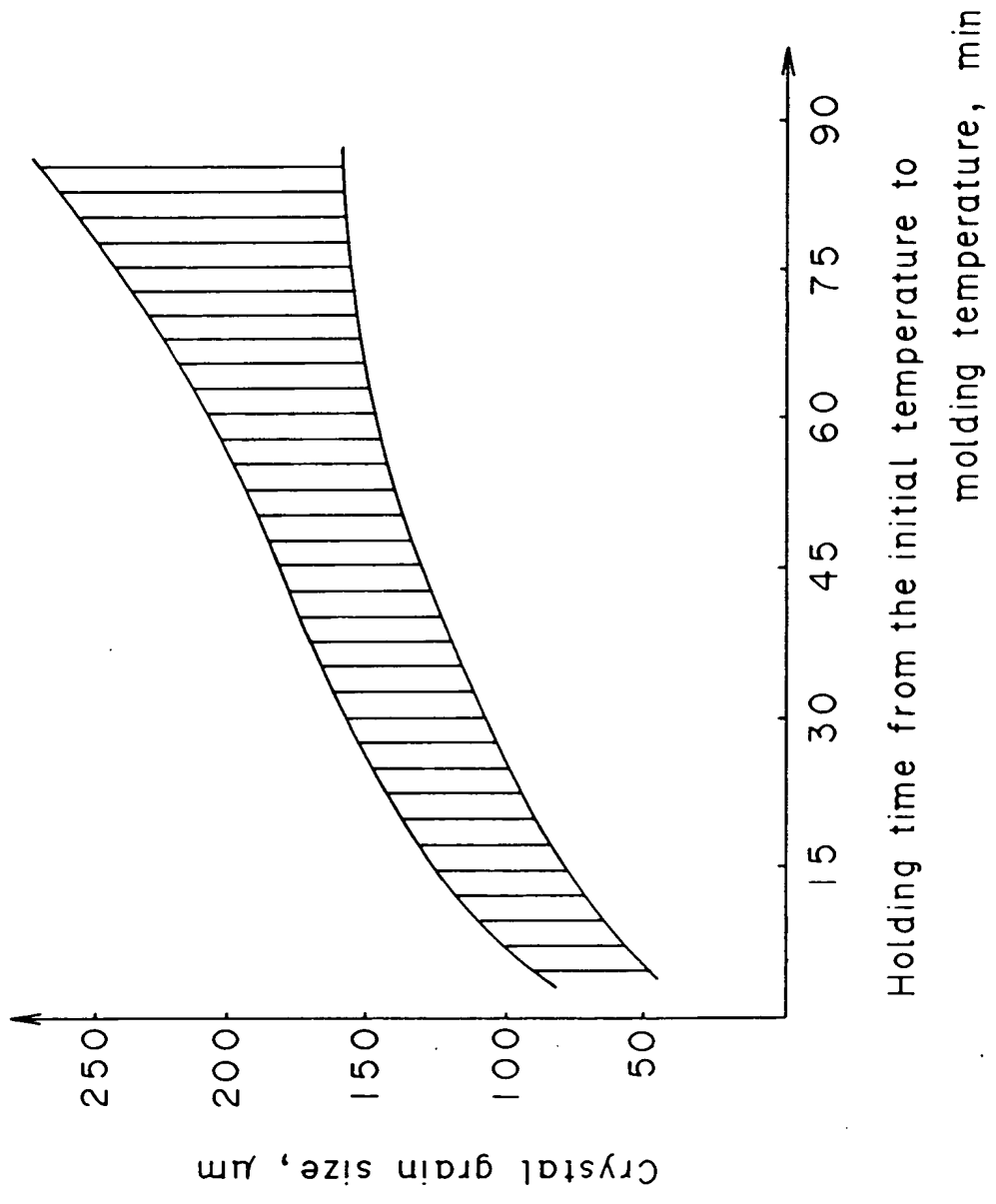


FIG. 17

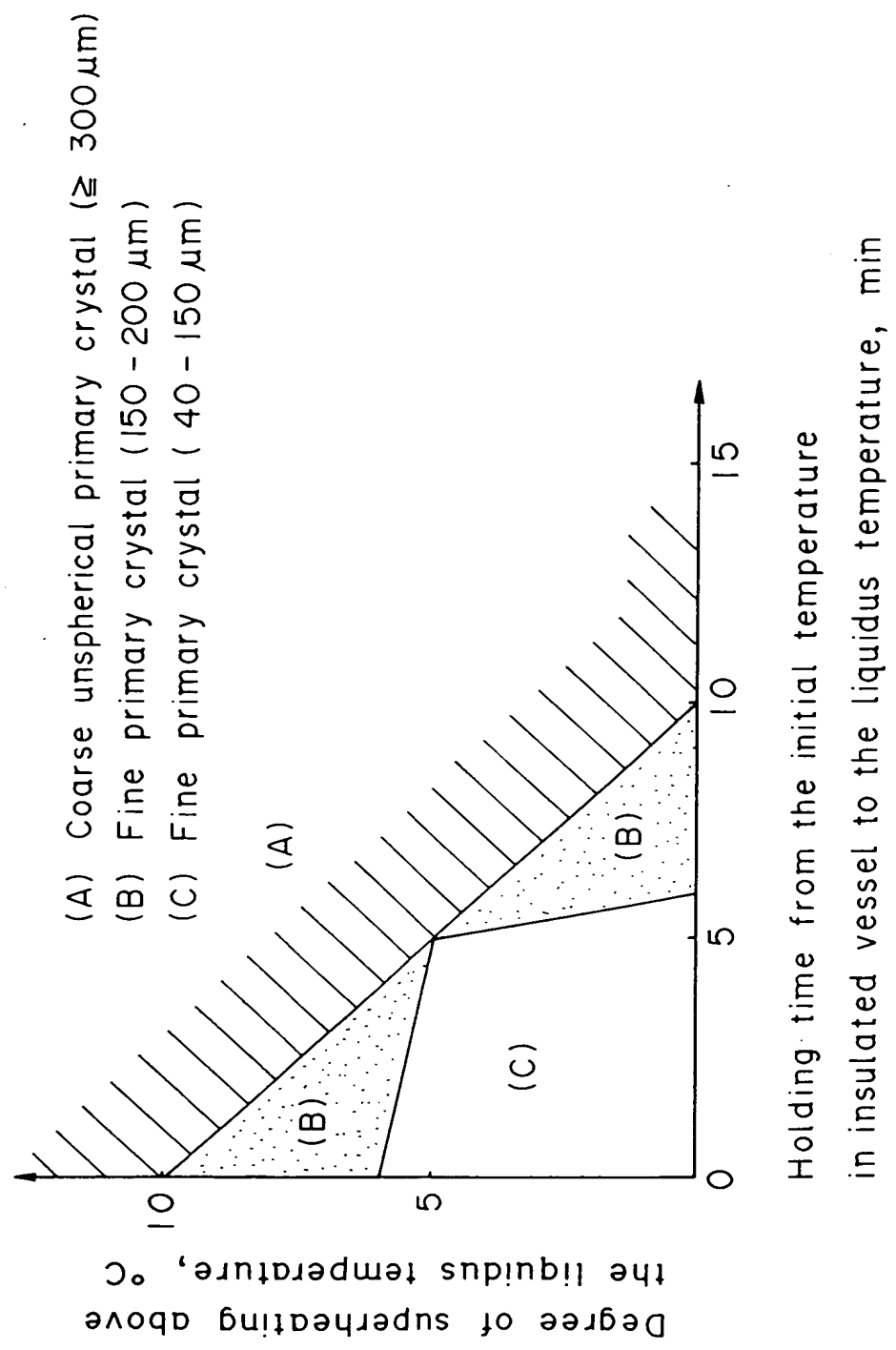
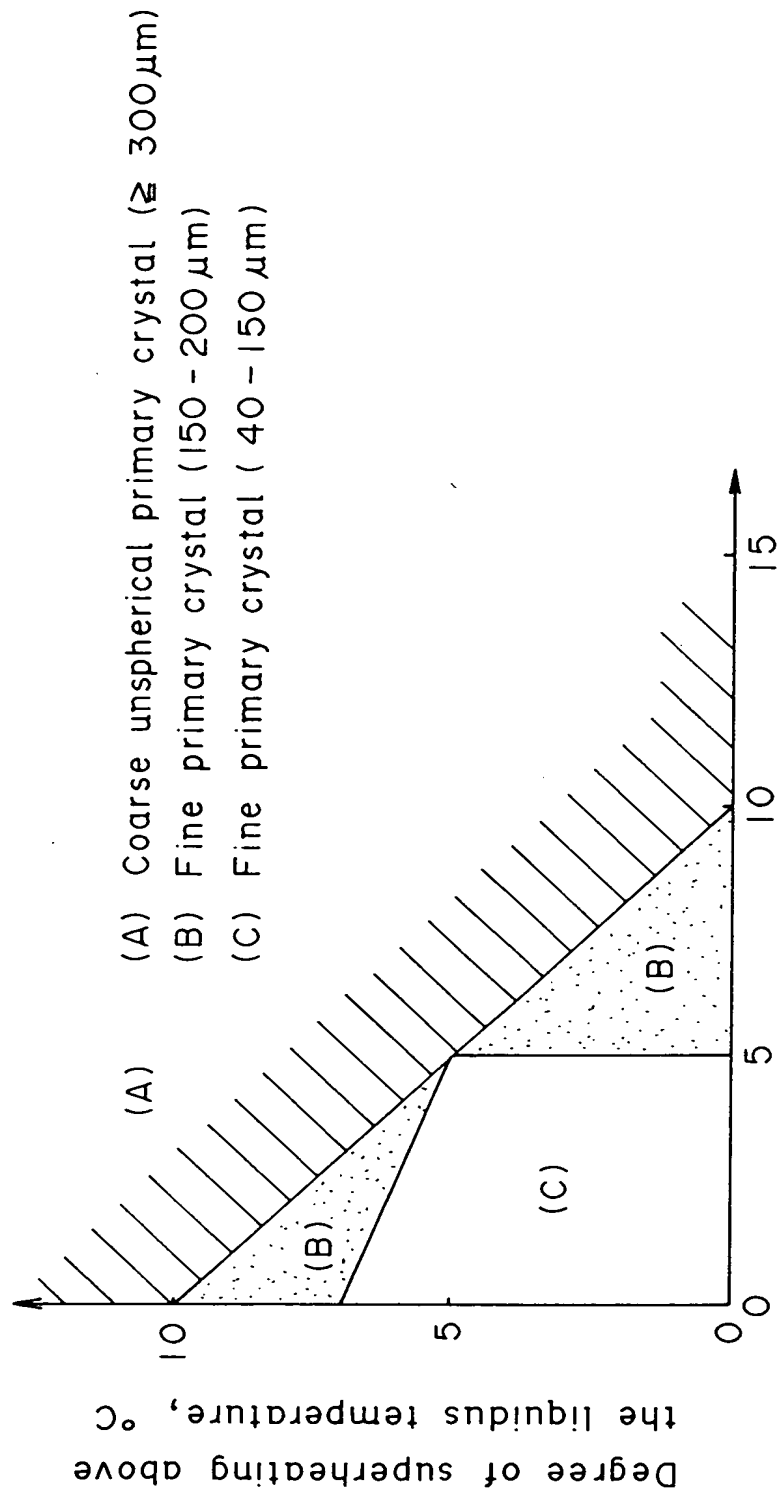
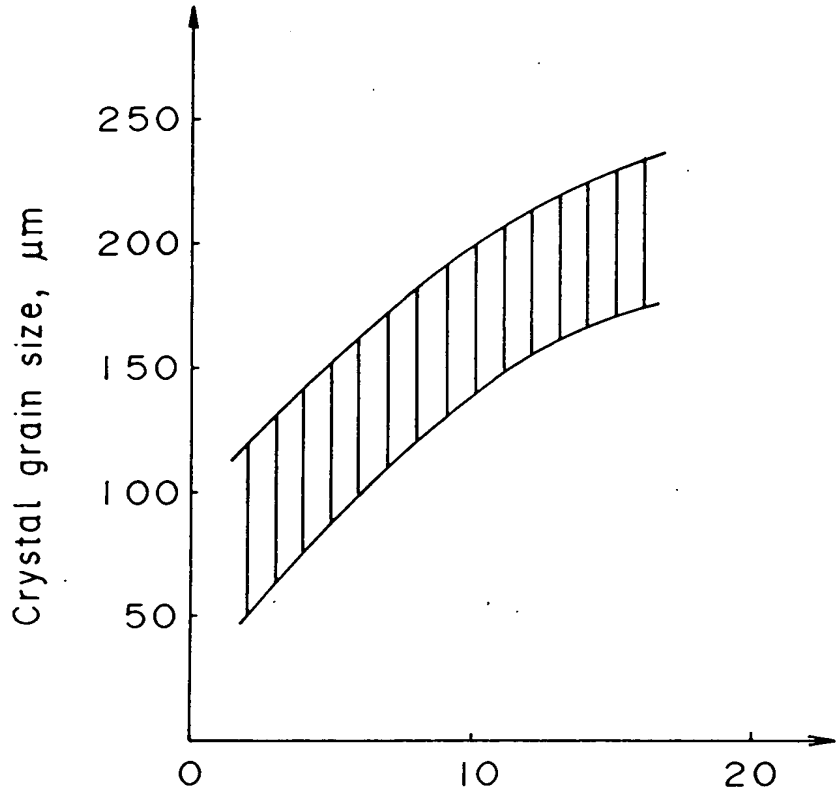


FIG. 18



Holding time from the initial temperature
in insulated vessel to the liquidus temperature, min

FIG. 19

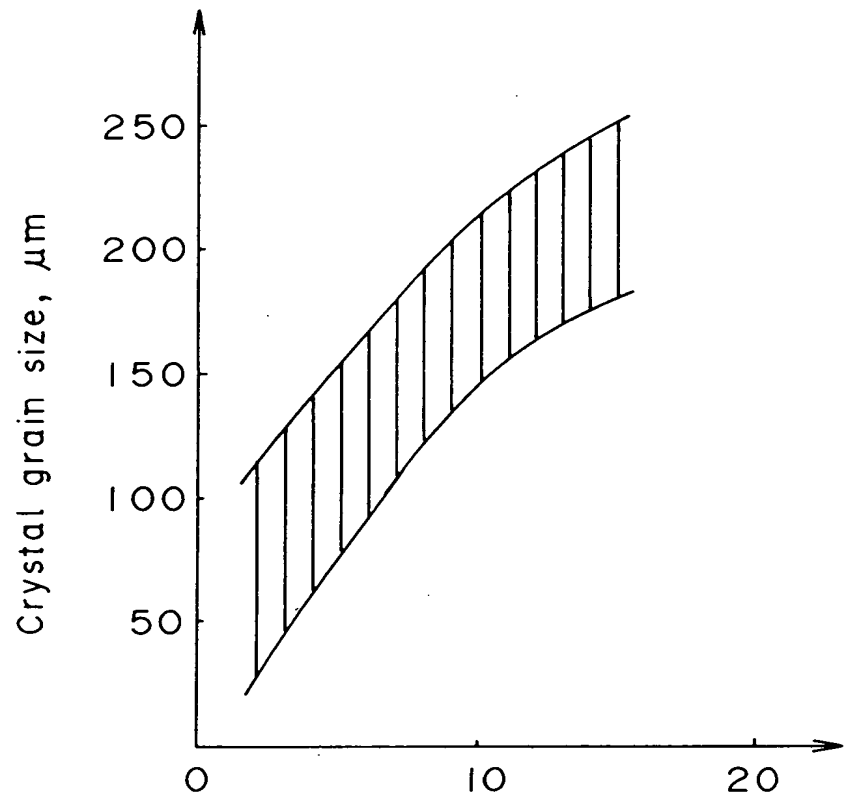


Holding time from the initial temperature
in insulated vessel to the liquidus
temperature minus 5°C, min

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

RR 672378

FIG. 20



Holding time from the initial temperature
in insulated vessel to the liquidus
temperature minus 5°C, min

FIG. 21

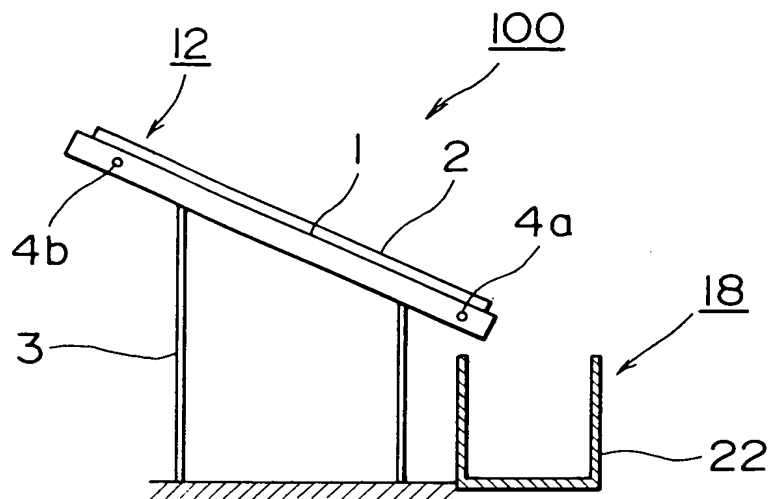


FIG. 22

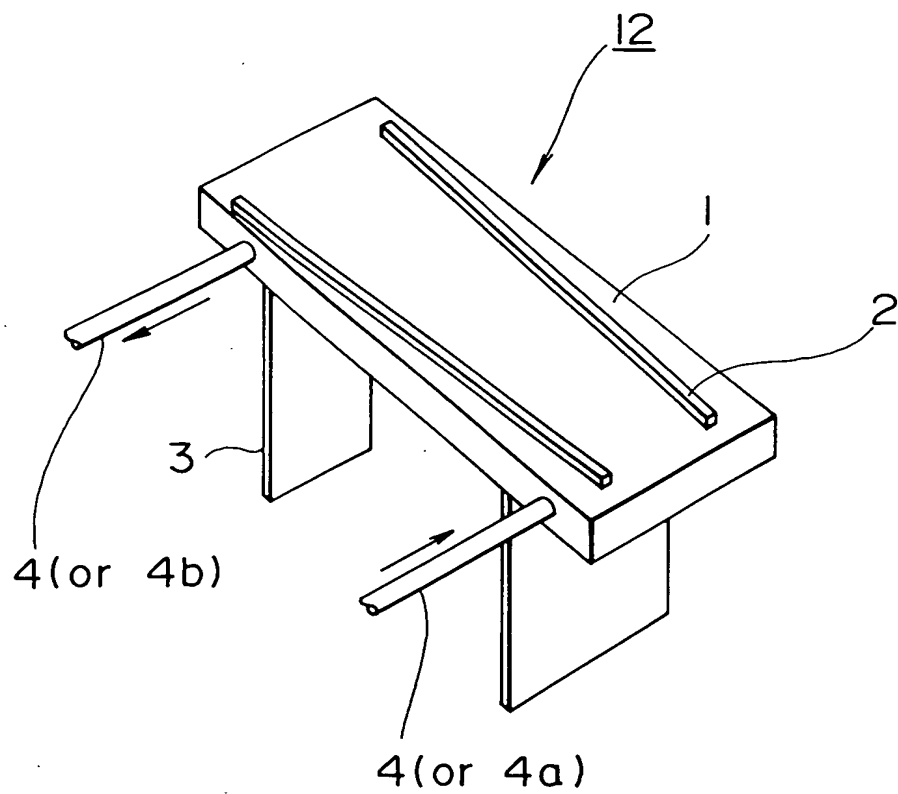


FIG. 23(a)

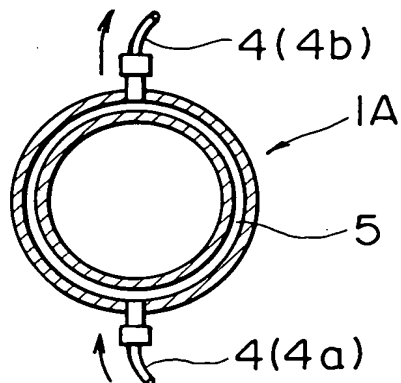


FIG. 23(b)

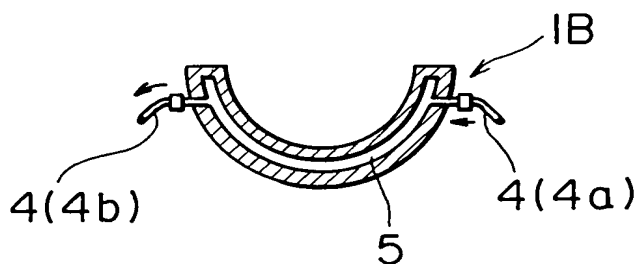


FIG. 24

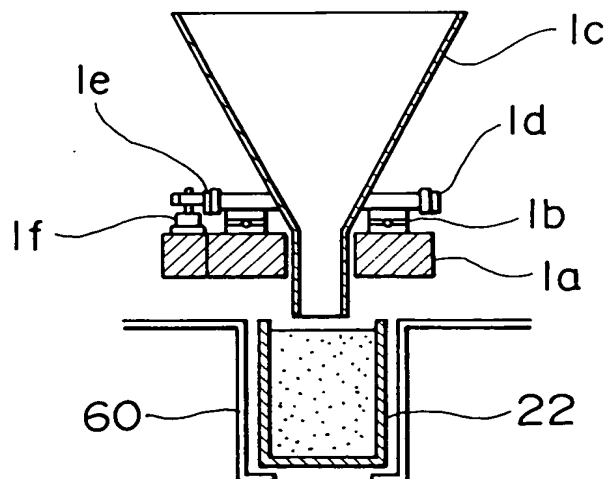


FIG. 25

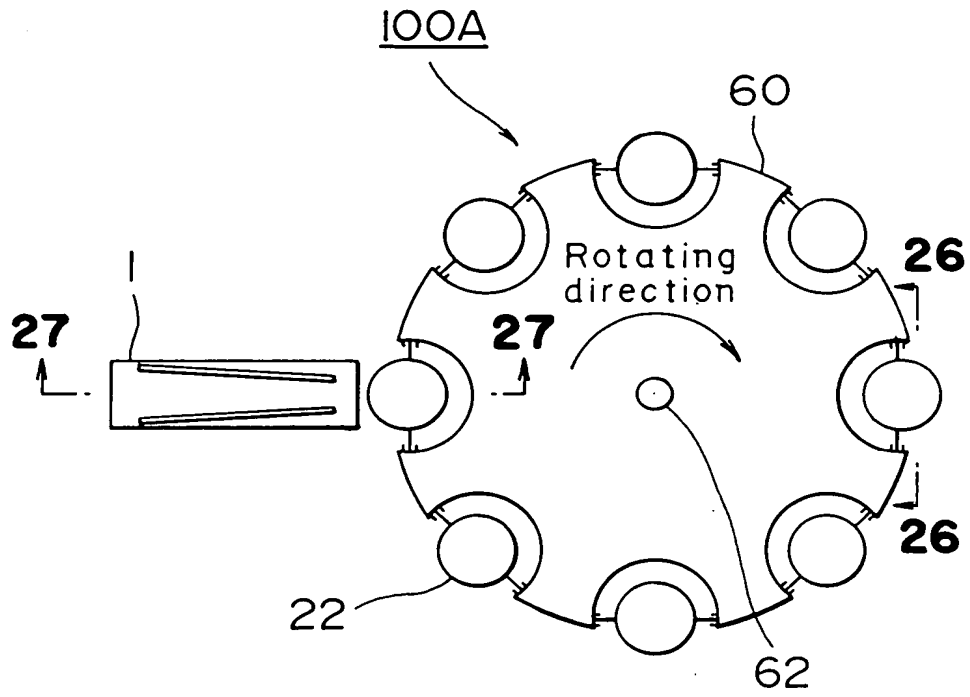


FIG. 26

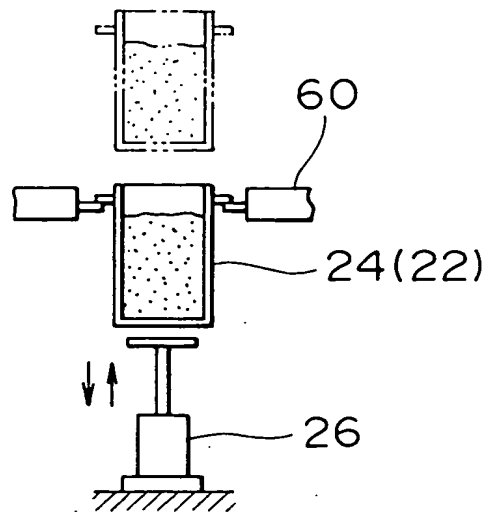


FIG. 27

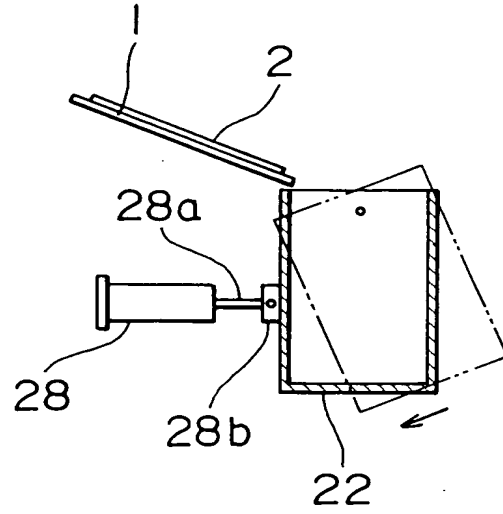


FIG. 28

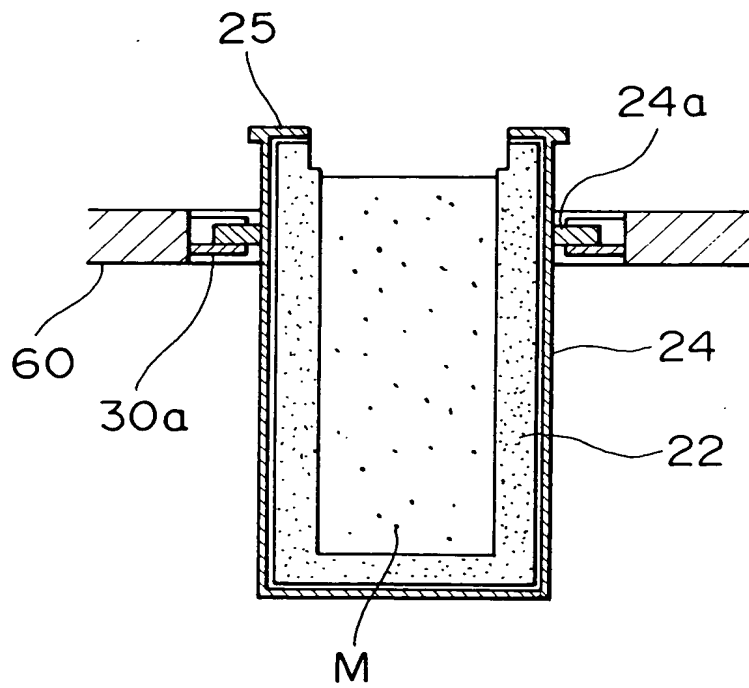


FIG. 29

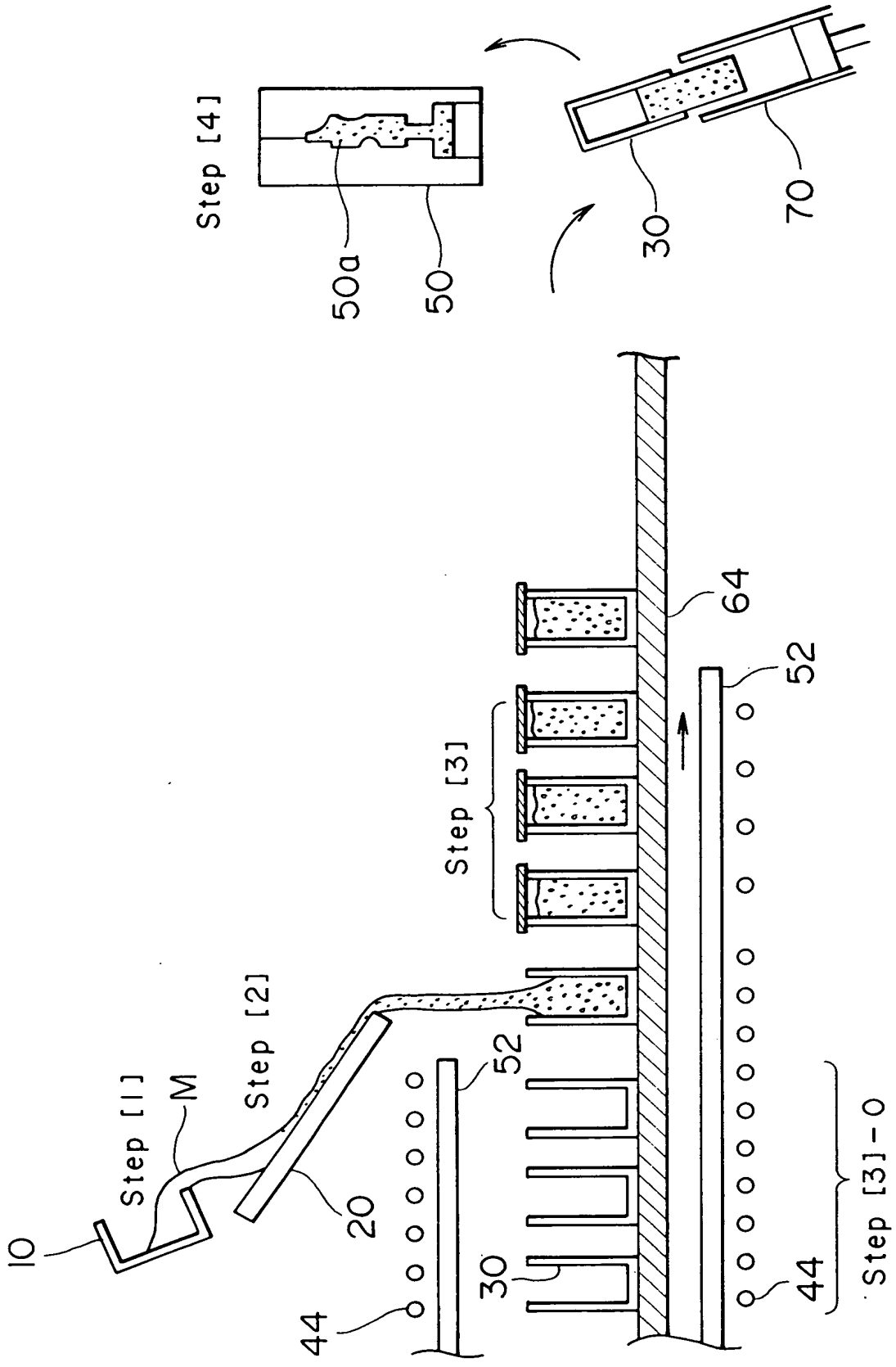


FIG. 30(a)

Left to cool at
both top and bottom

5mm-thick stainless steel vessel

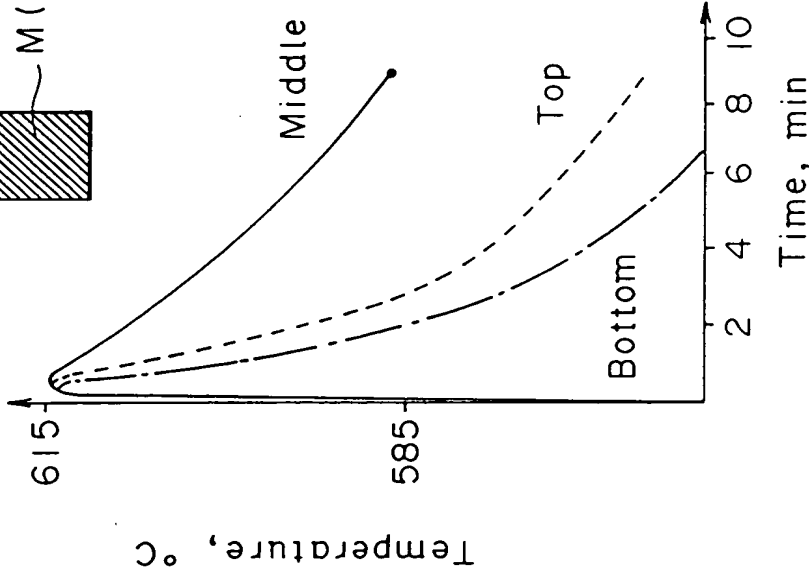
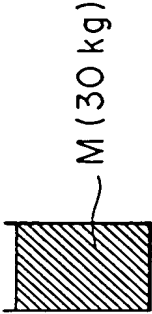


FIG. 30(b)

Heat-retained at top
but heated at bottom

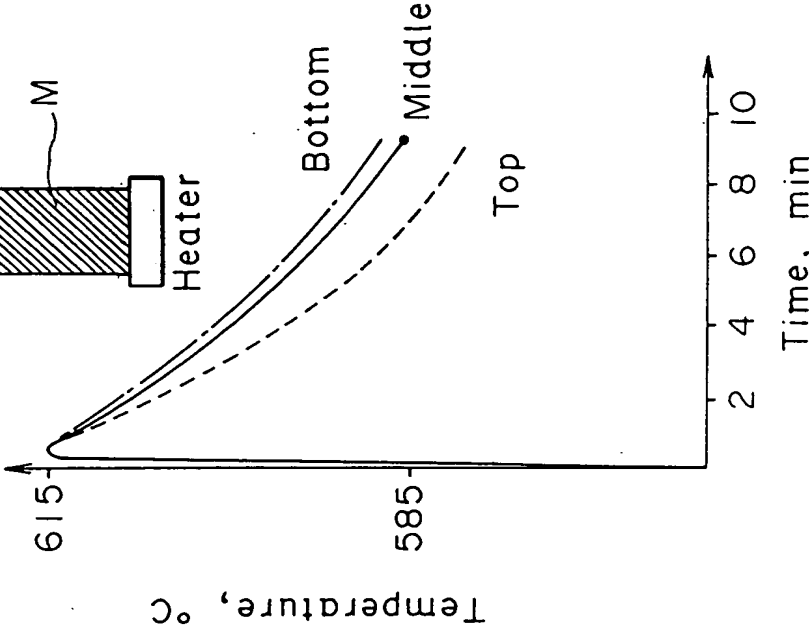
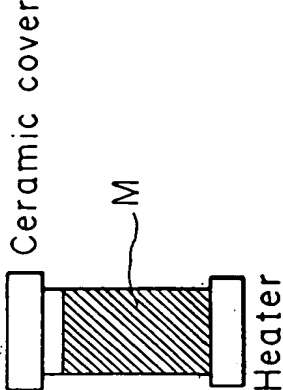
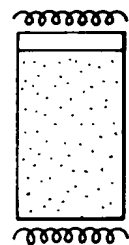


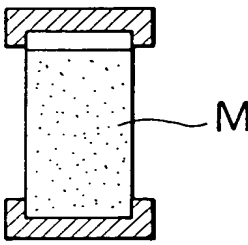
FIG. 3I(a) FIG. 3I(b)

Heated



Heated

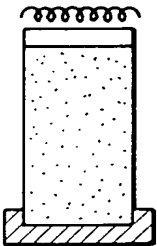
Heat-retained



Heat-retained

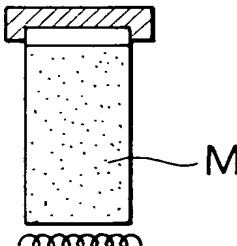
FIG. 3I(c) FIG. 3I(d)

Heated



Heat-retained

Heat-retained



Heated

FIG. 32

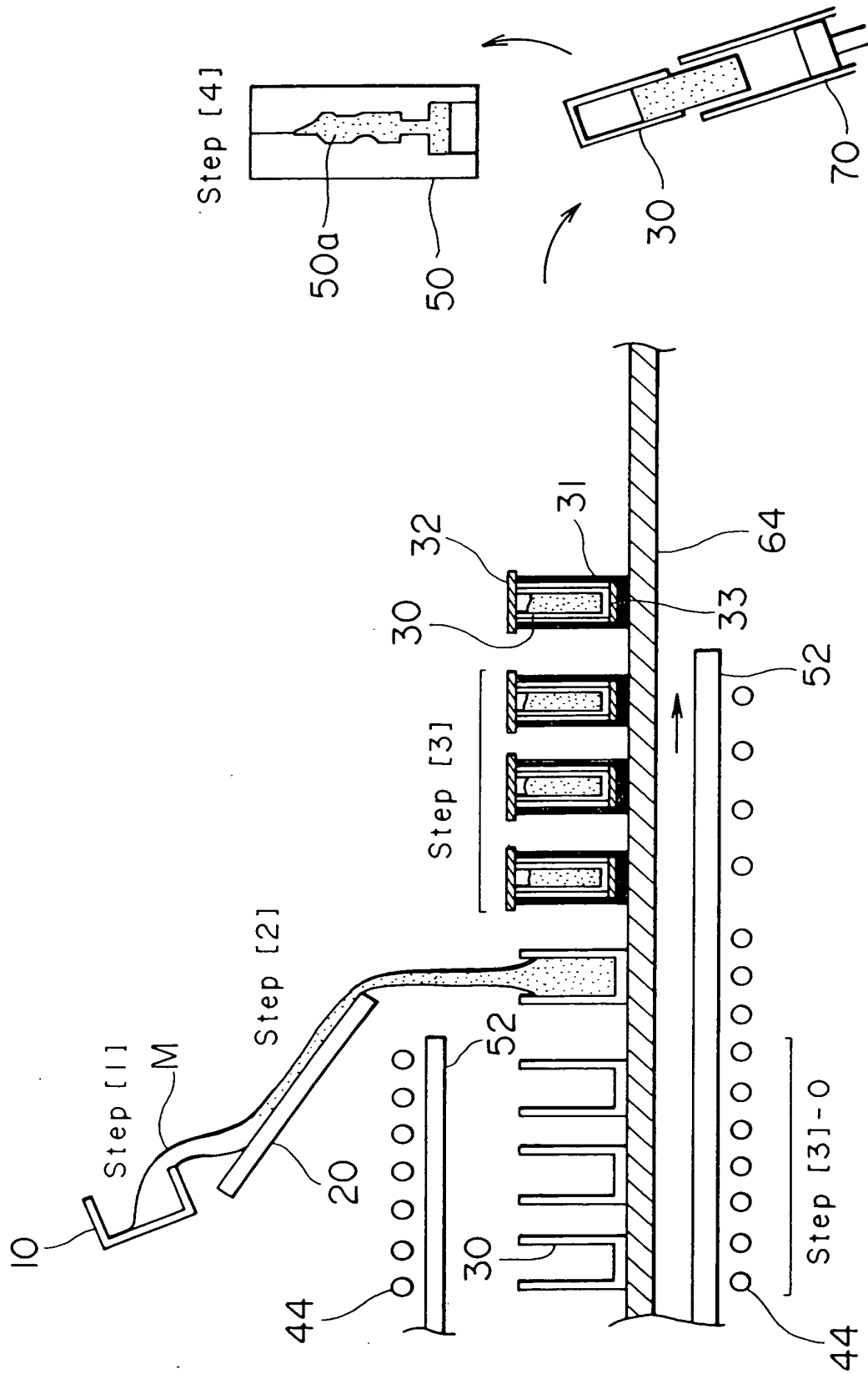


FIG. 33(a)

[Comparative]



Holding vessel
(stainless steel)

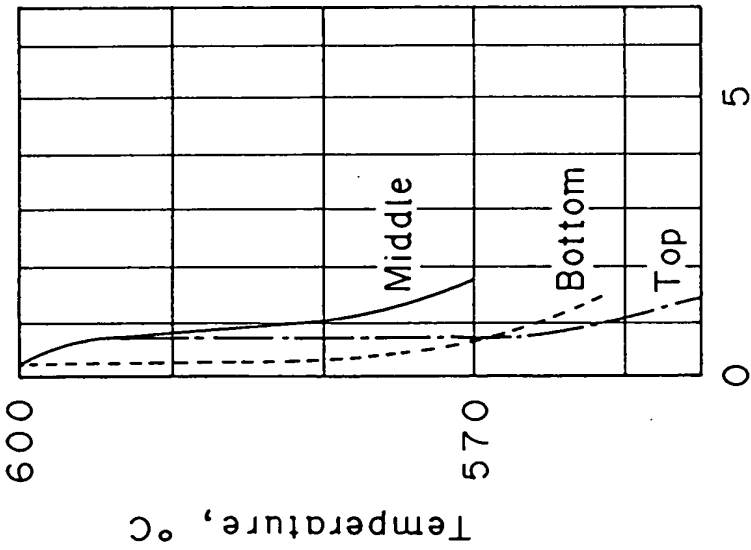
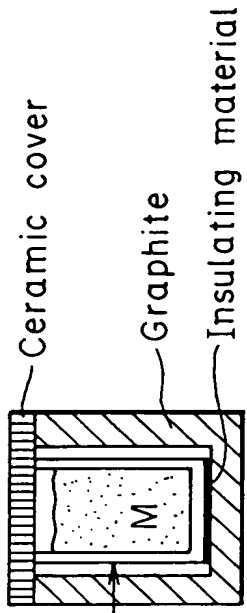


FIG. 33(b)

[Invention]



Holding vessel
(stainless steel)

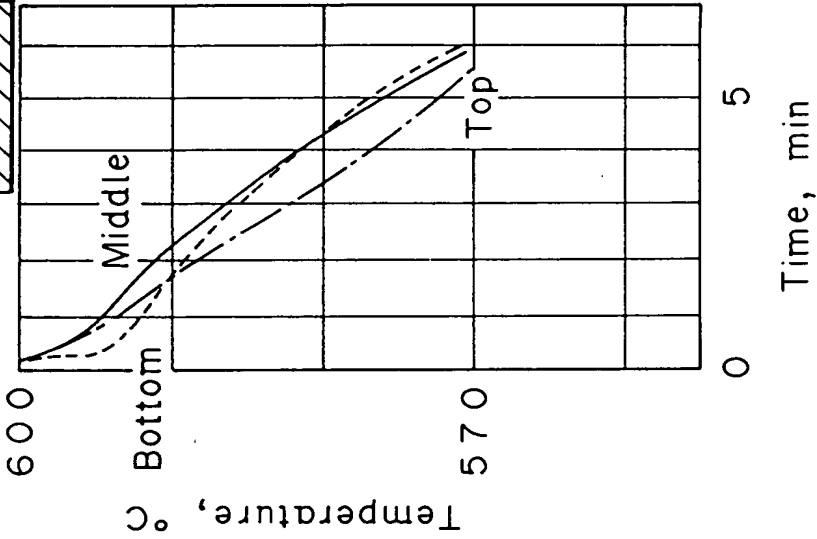


FIG. 34 Prior Art

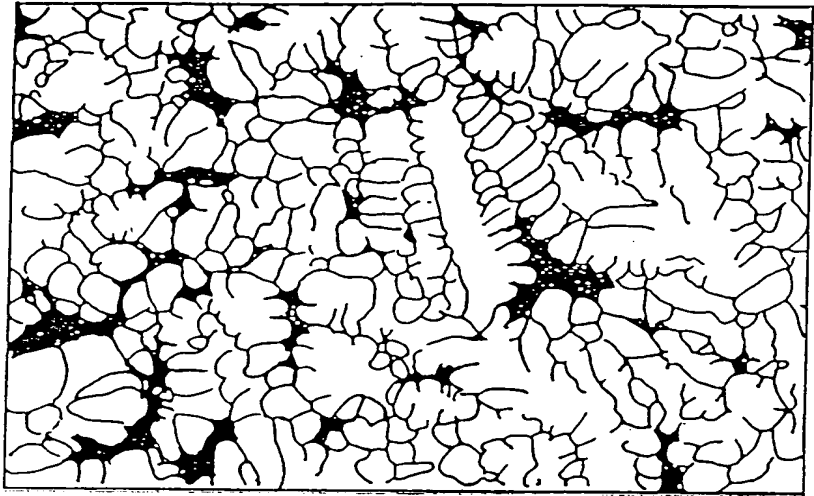


FIG. 35

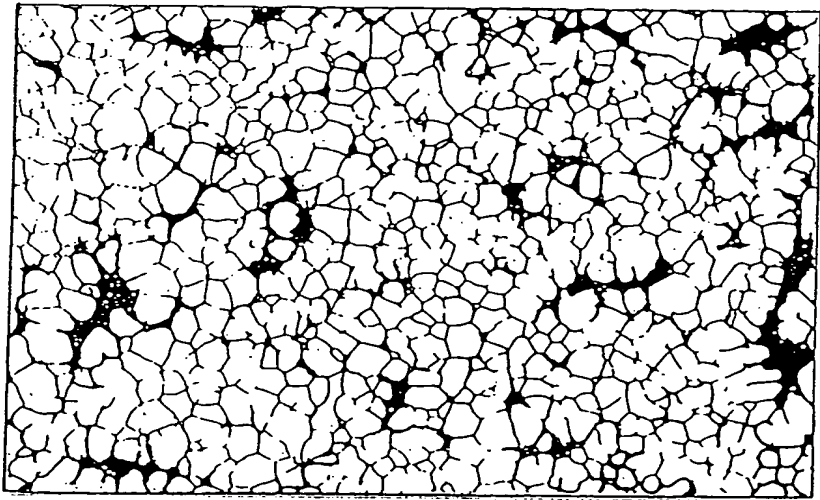


FIG. 37

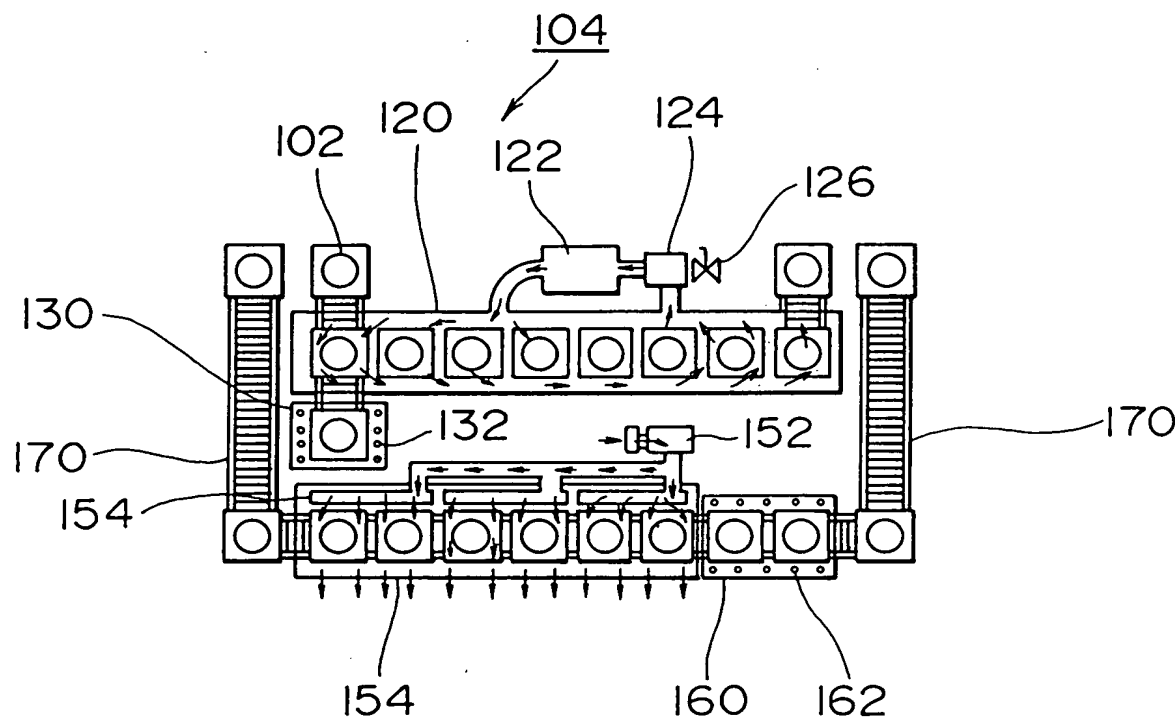


FIG. 38

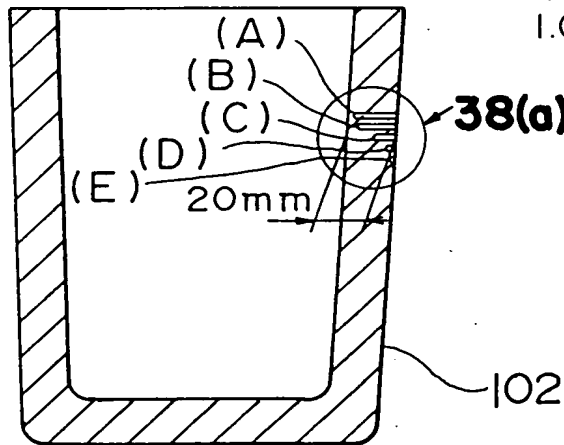


FIG. 38(a)

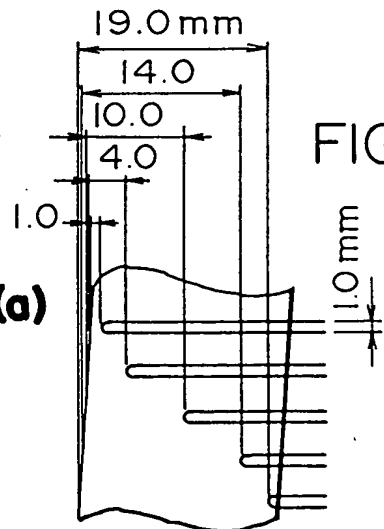


FIG. 39

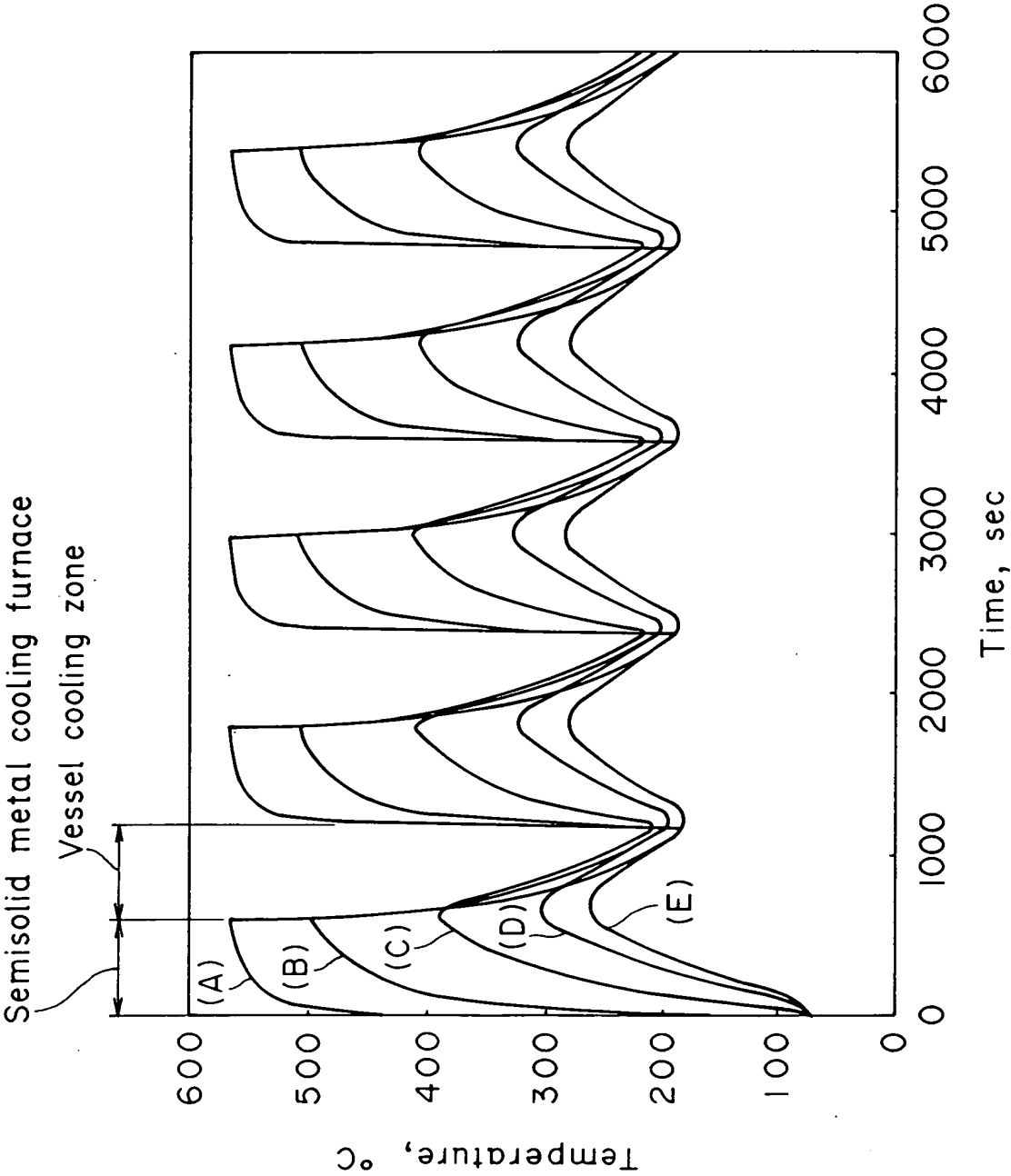


FIG. 40

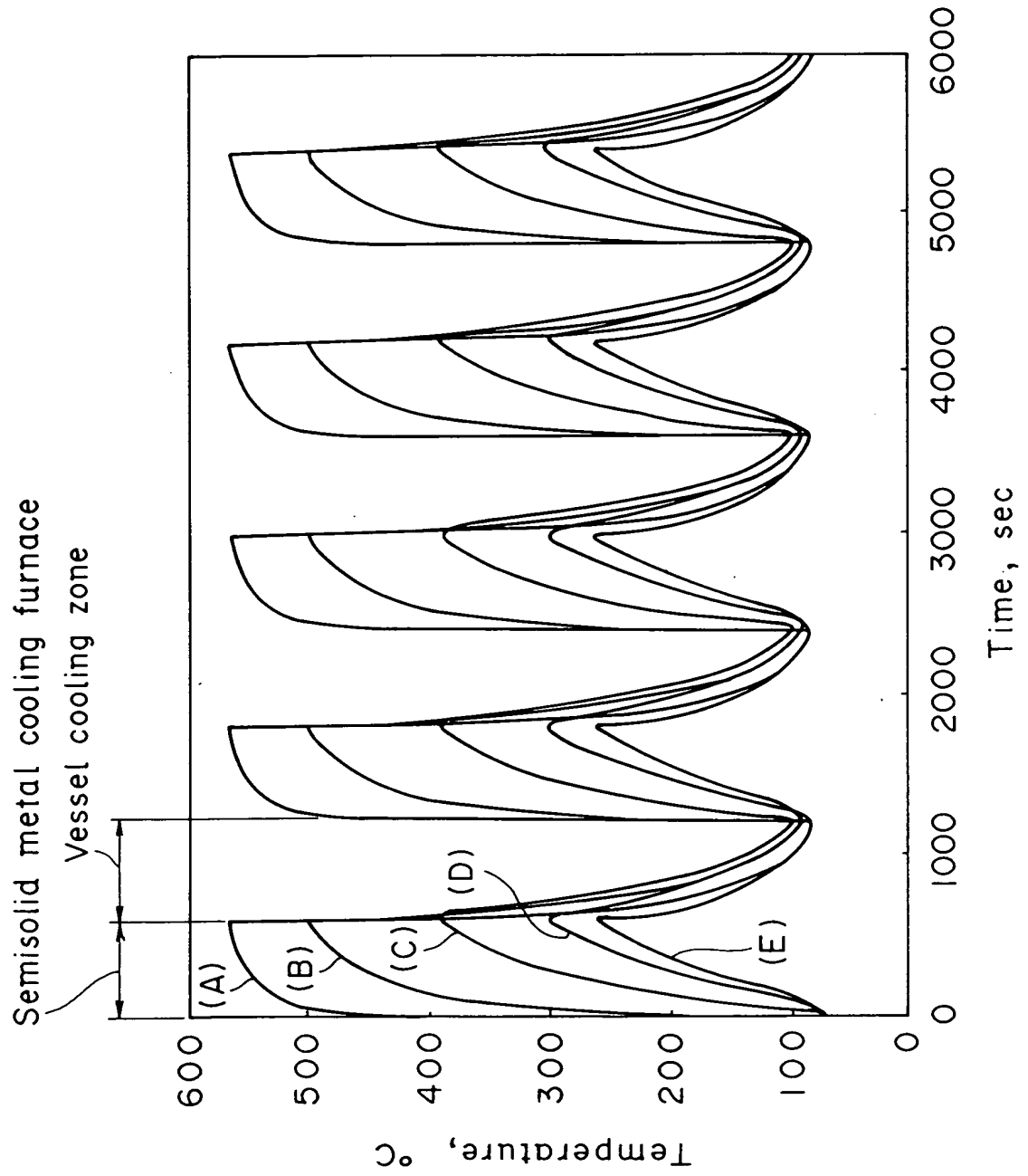


FIG. 4I

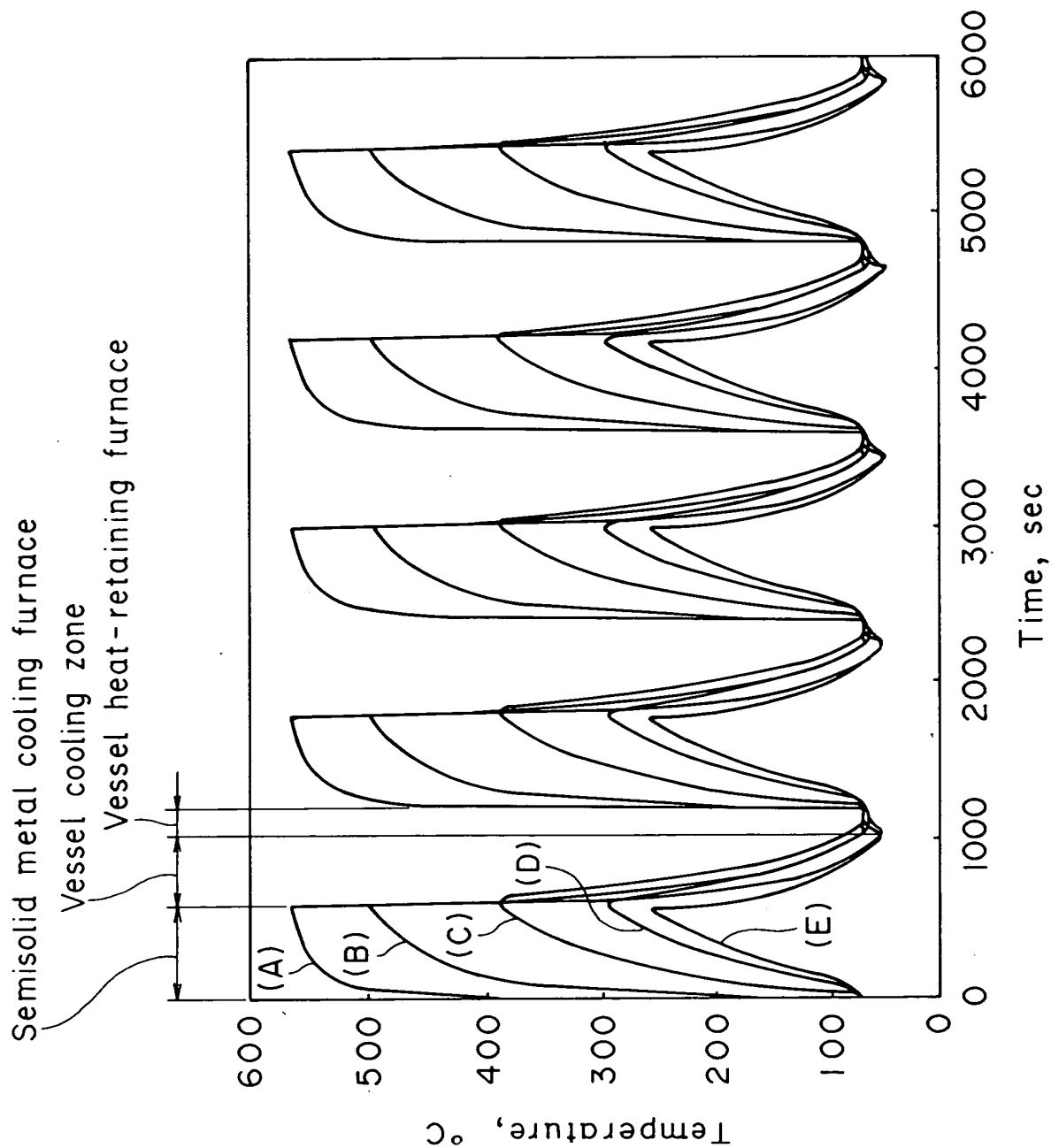


FIG. 42

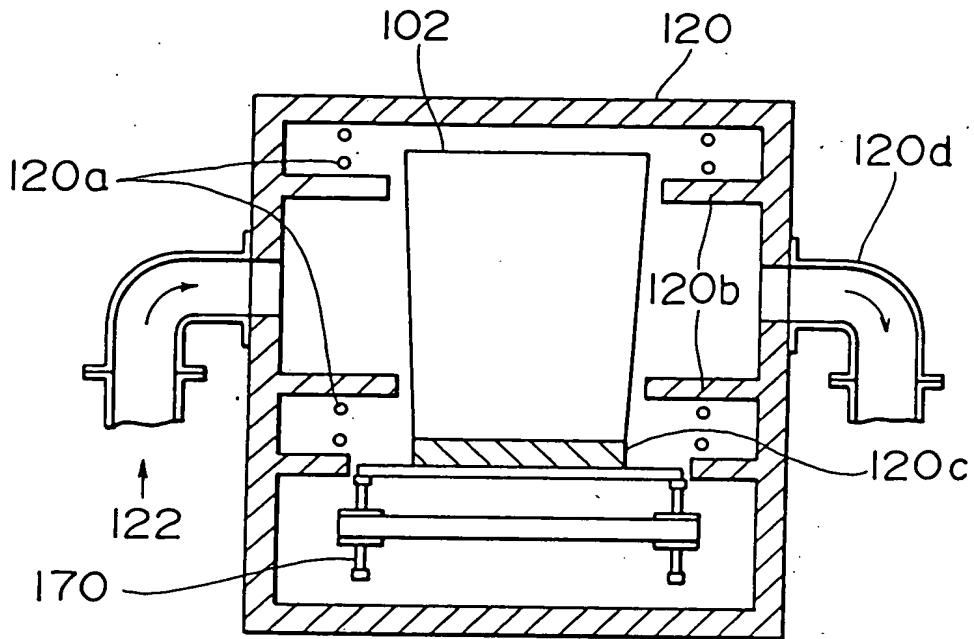


FIG. 43

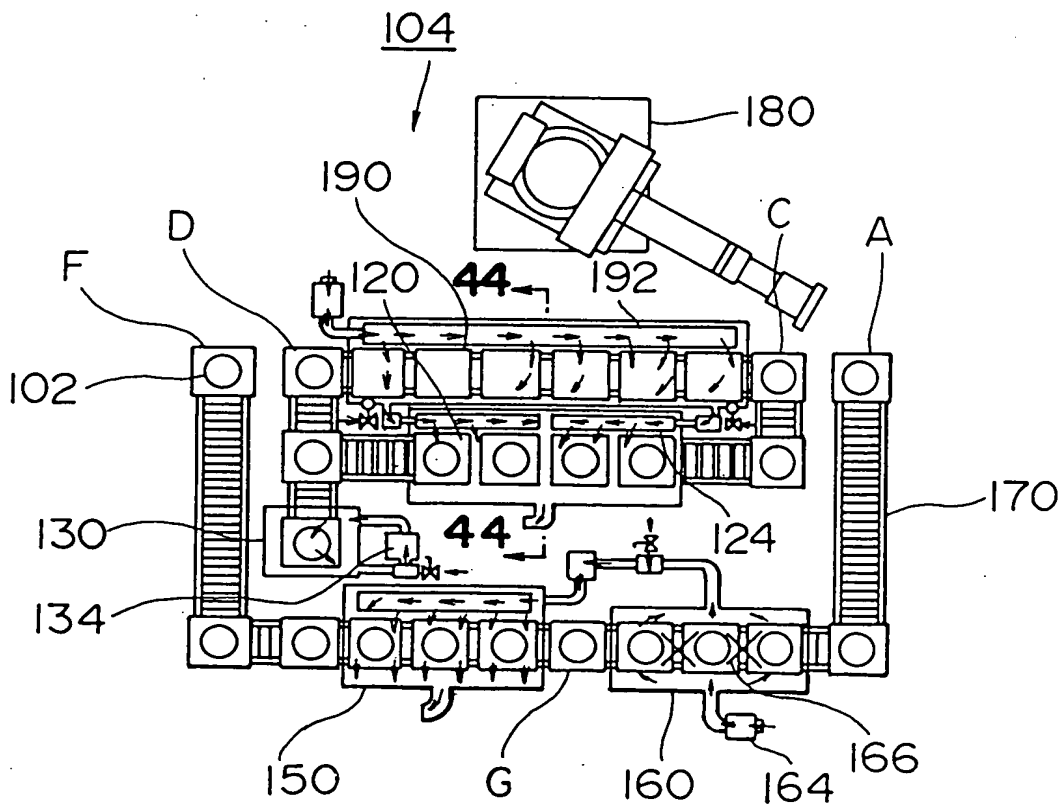


FIG. 44

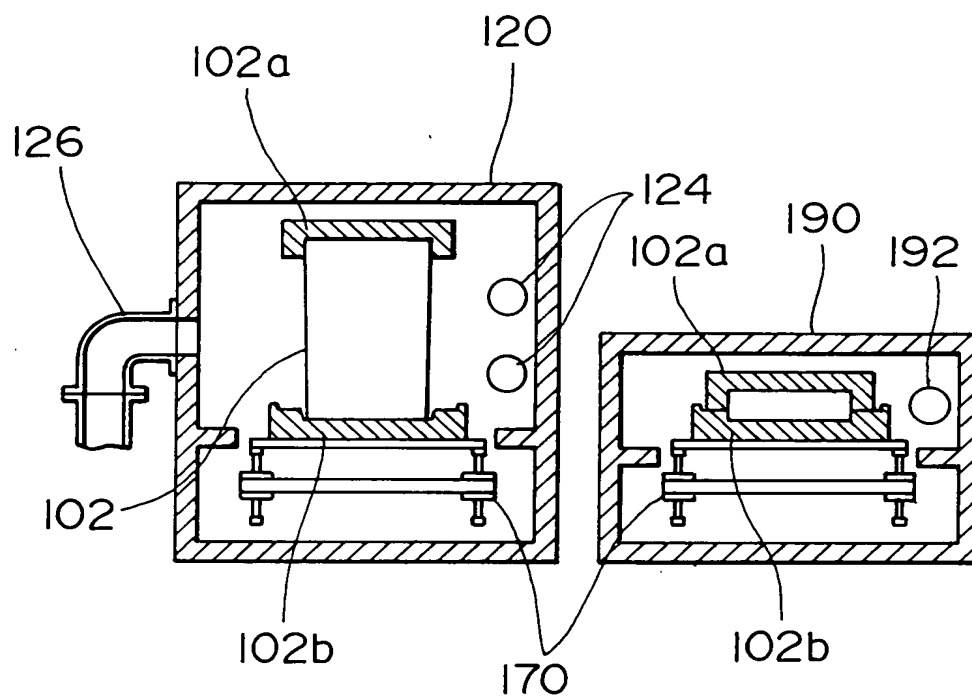


FIG. 45(a)

Temperature of
atmosphere : 200°C

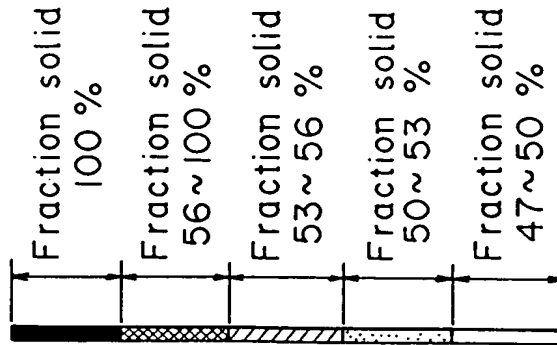


FIG. 45(b)

SUS304
preheated to 200°C

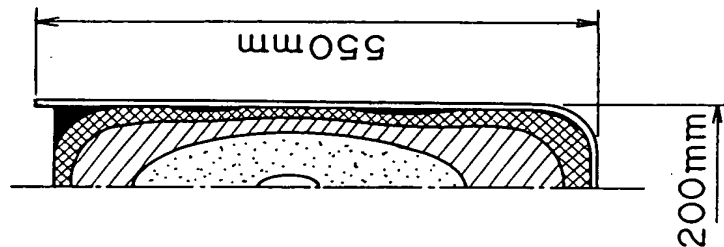


FIG. 45(c)

$\text{Al}_2\text{O}_3\text{-SiO}_2$ composite
preheated to 200°C

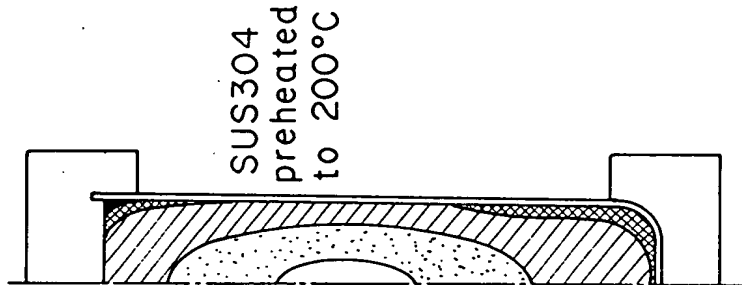
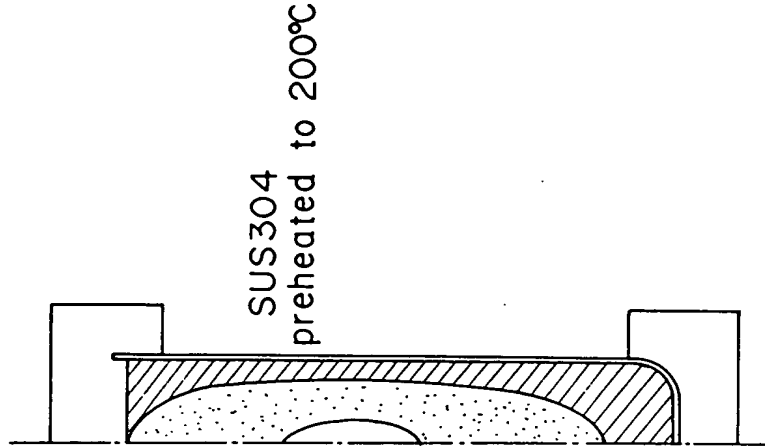


FIG. 45(d)

$\text{Al}_2\text{O}_3\text{-SiO}_2$ composite
preheated to 350°C



$\text{Al}_2\text{O}_3\text{-SiO}_2$ composite
preheated to 200°C

$\text{Al}_2\text{O}_3\text{-SiO}_2$ composite
preheated to 350°C

FIG. 46

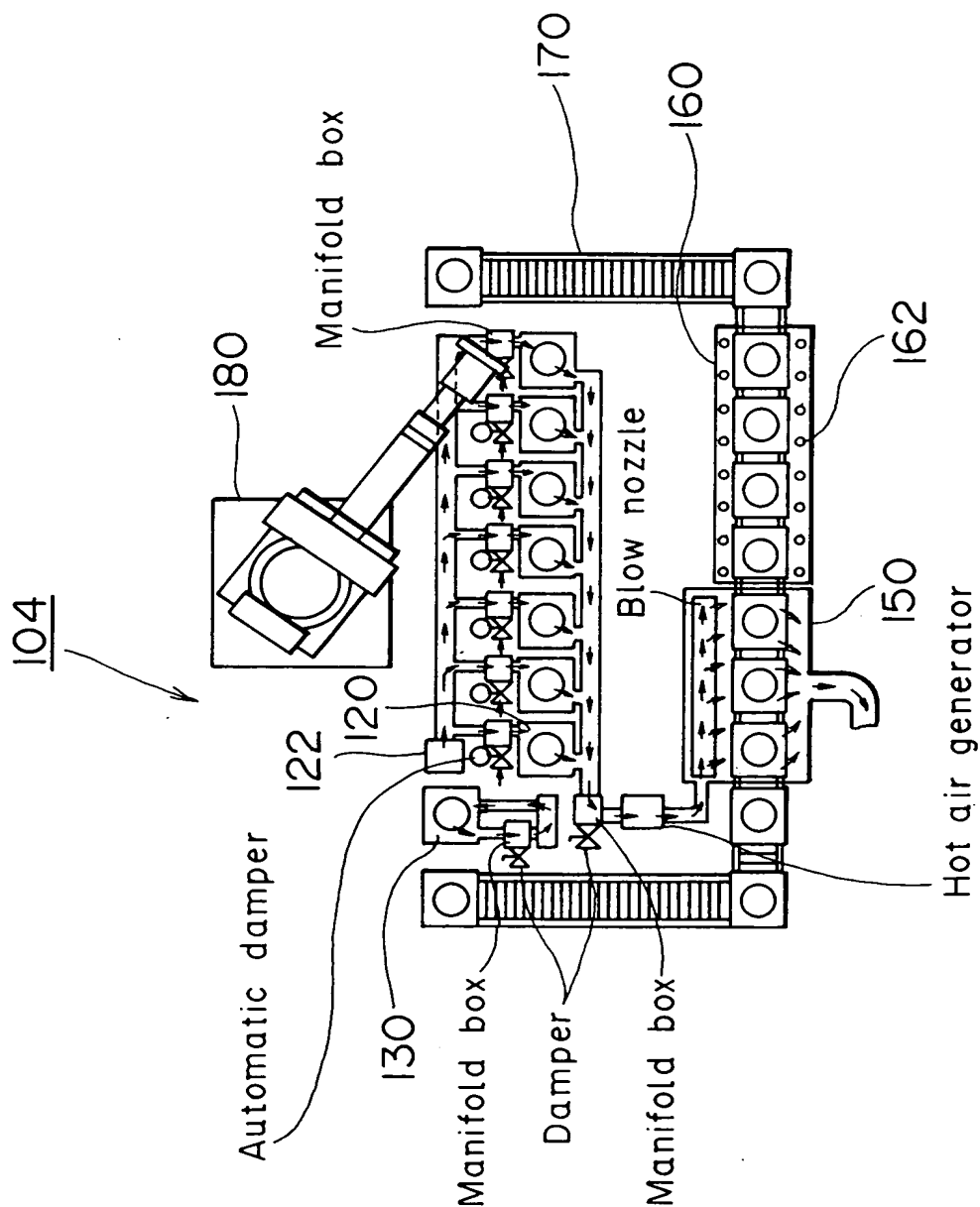


FIG. 47

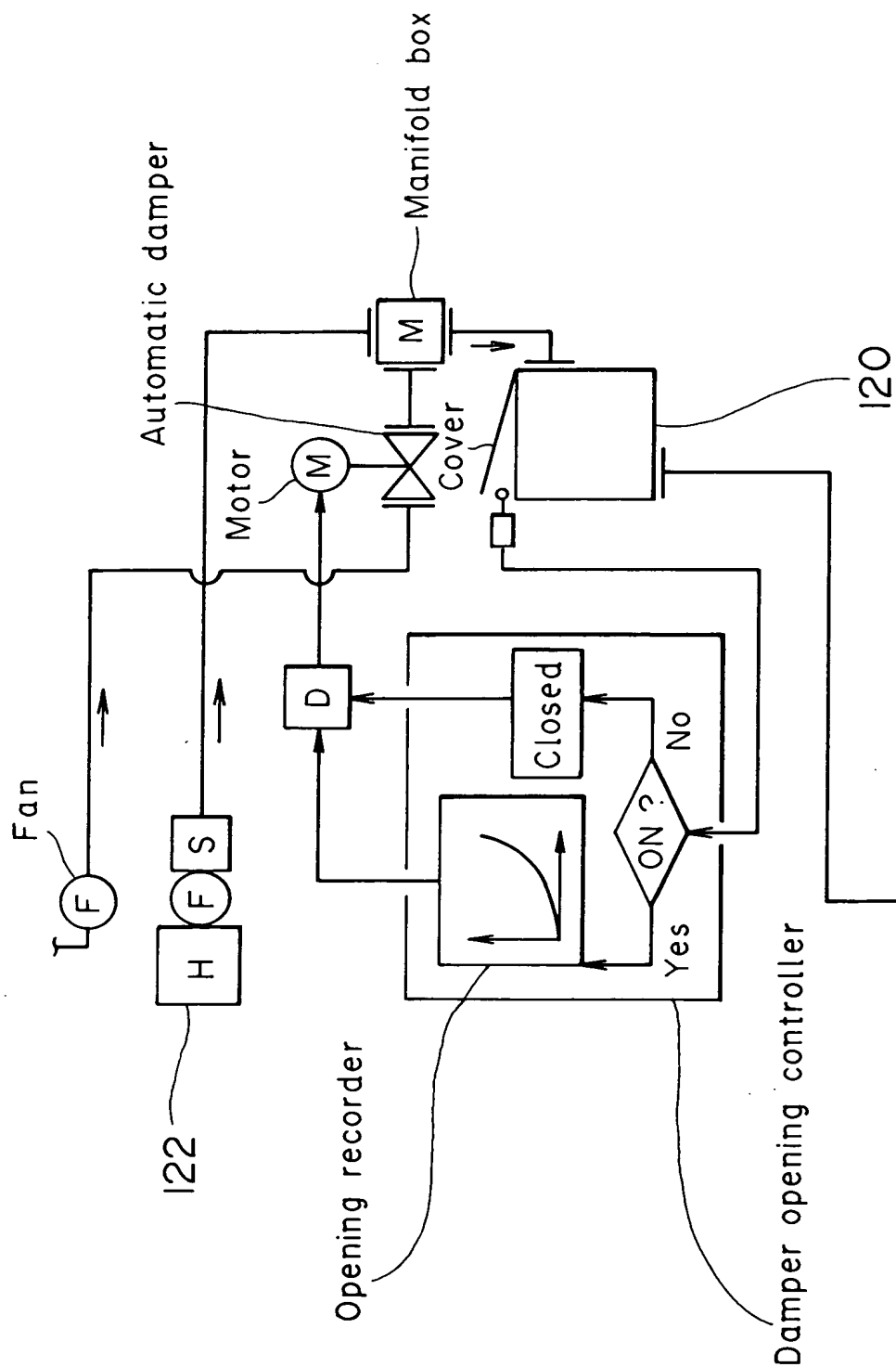


FIG. 48

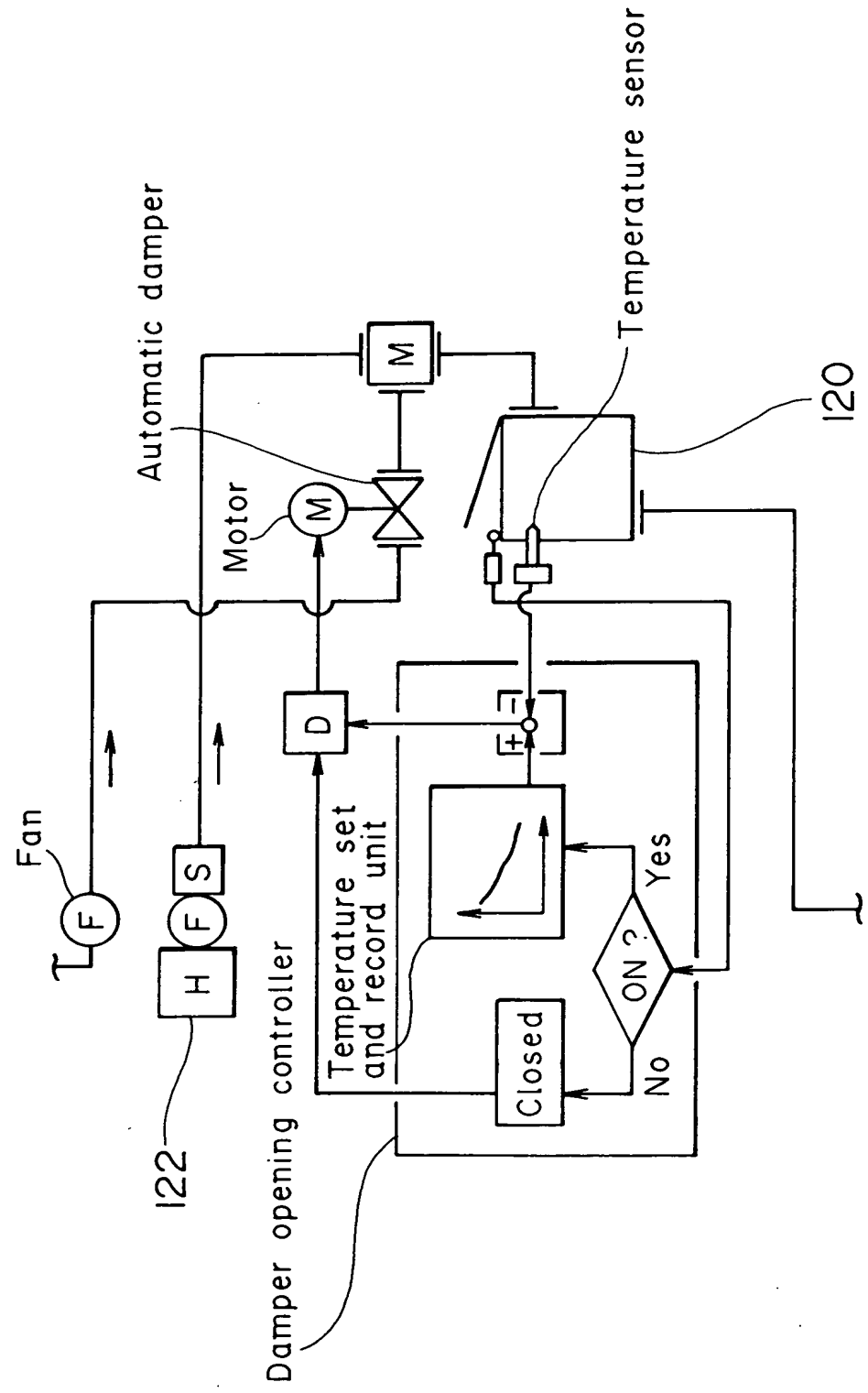


FIG. 49

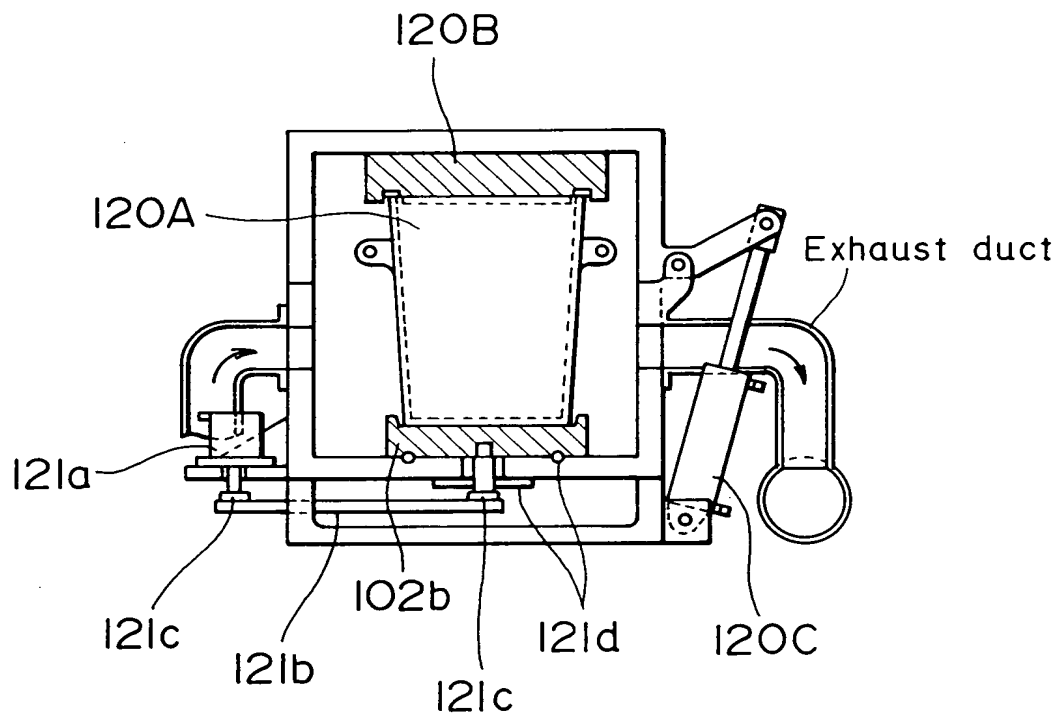
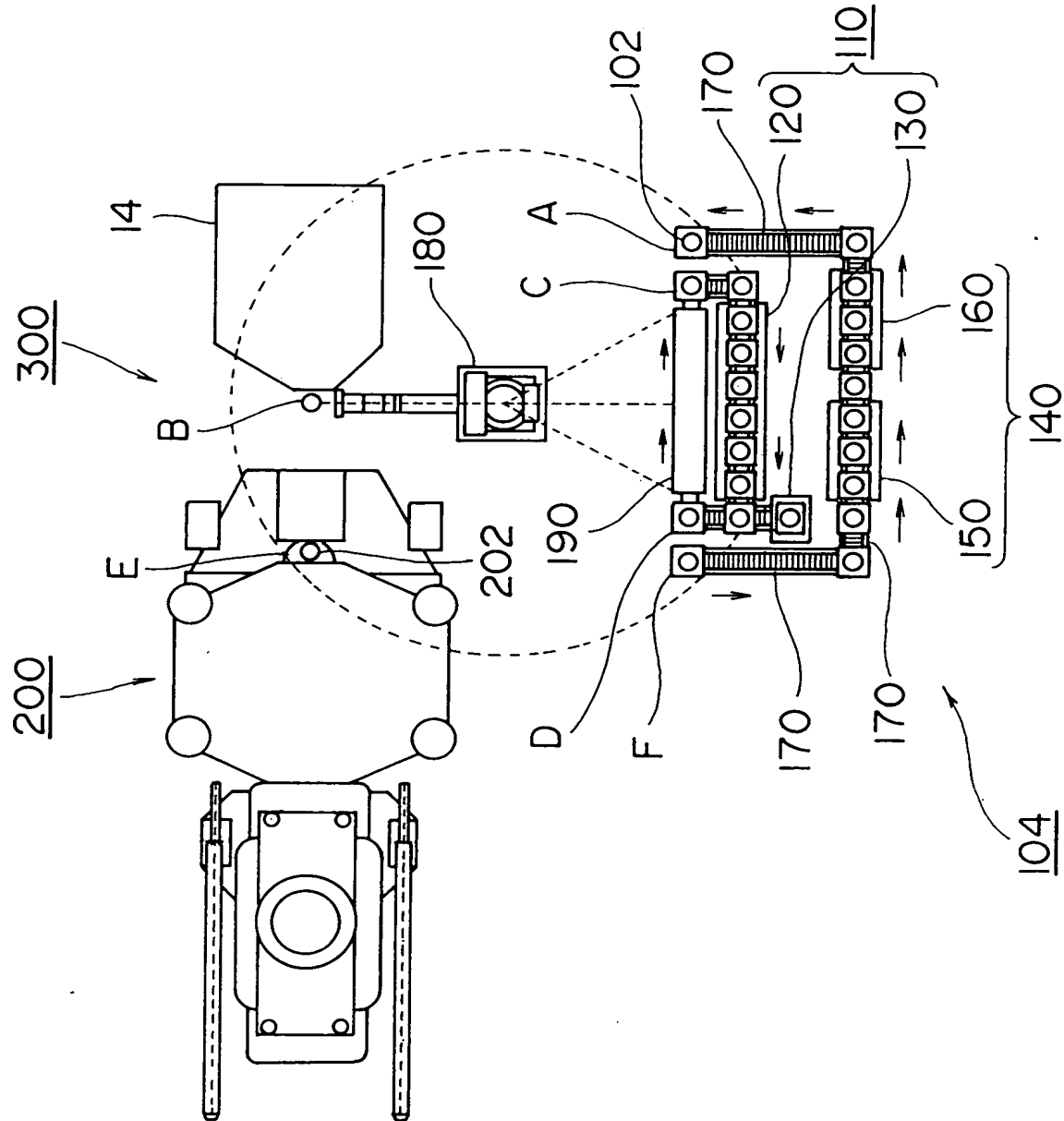


FIG. 50



APPROVED	O.G. FIG.	
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FIG. 5I

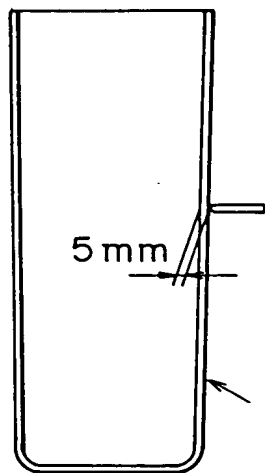
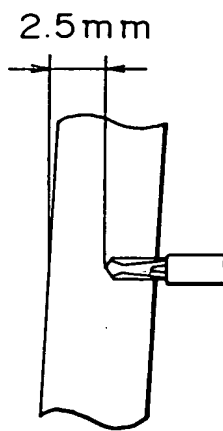


FIG. 5I(a)



SUS304

FIG. 52

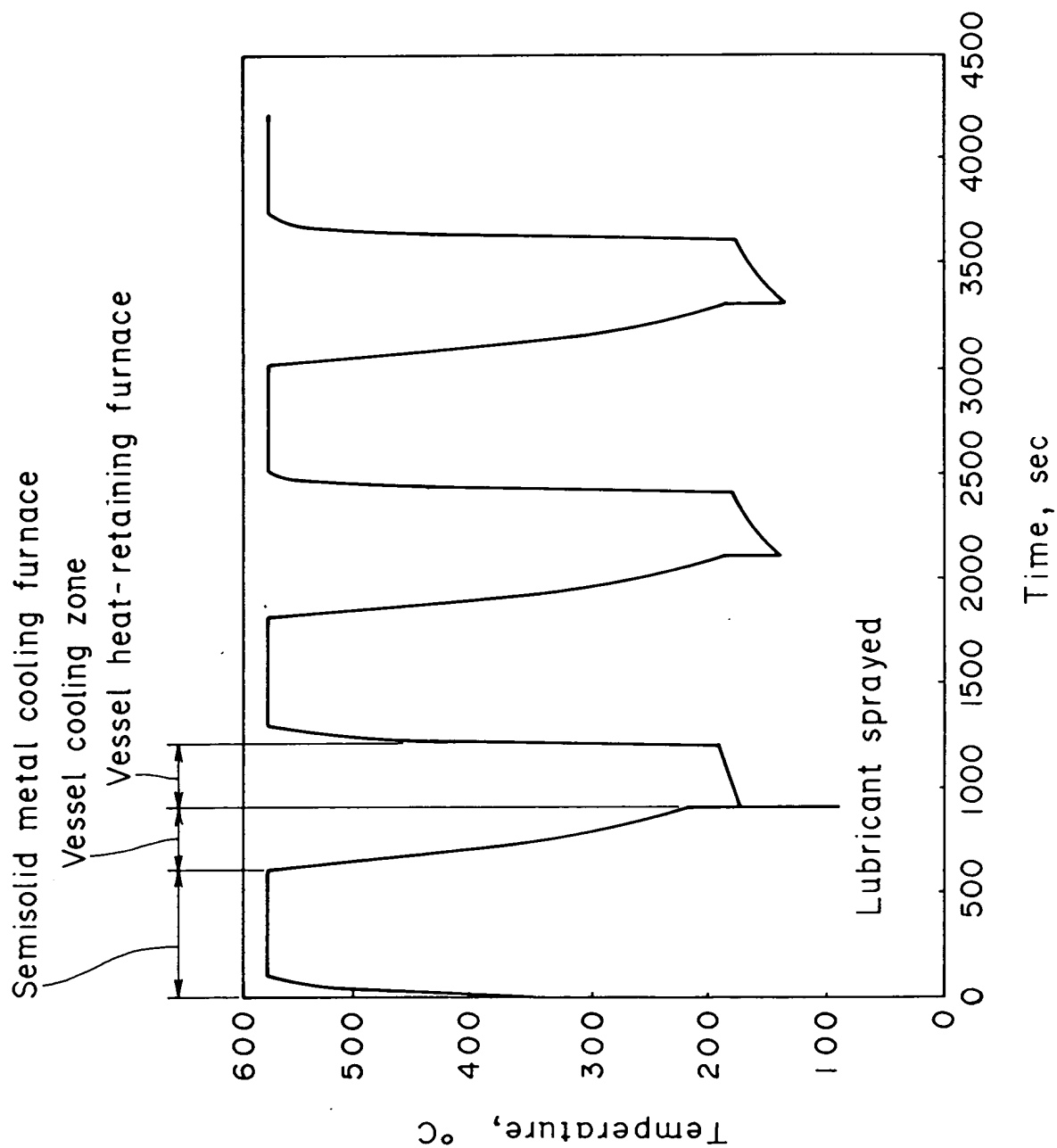


FIG. 53

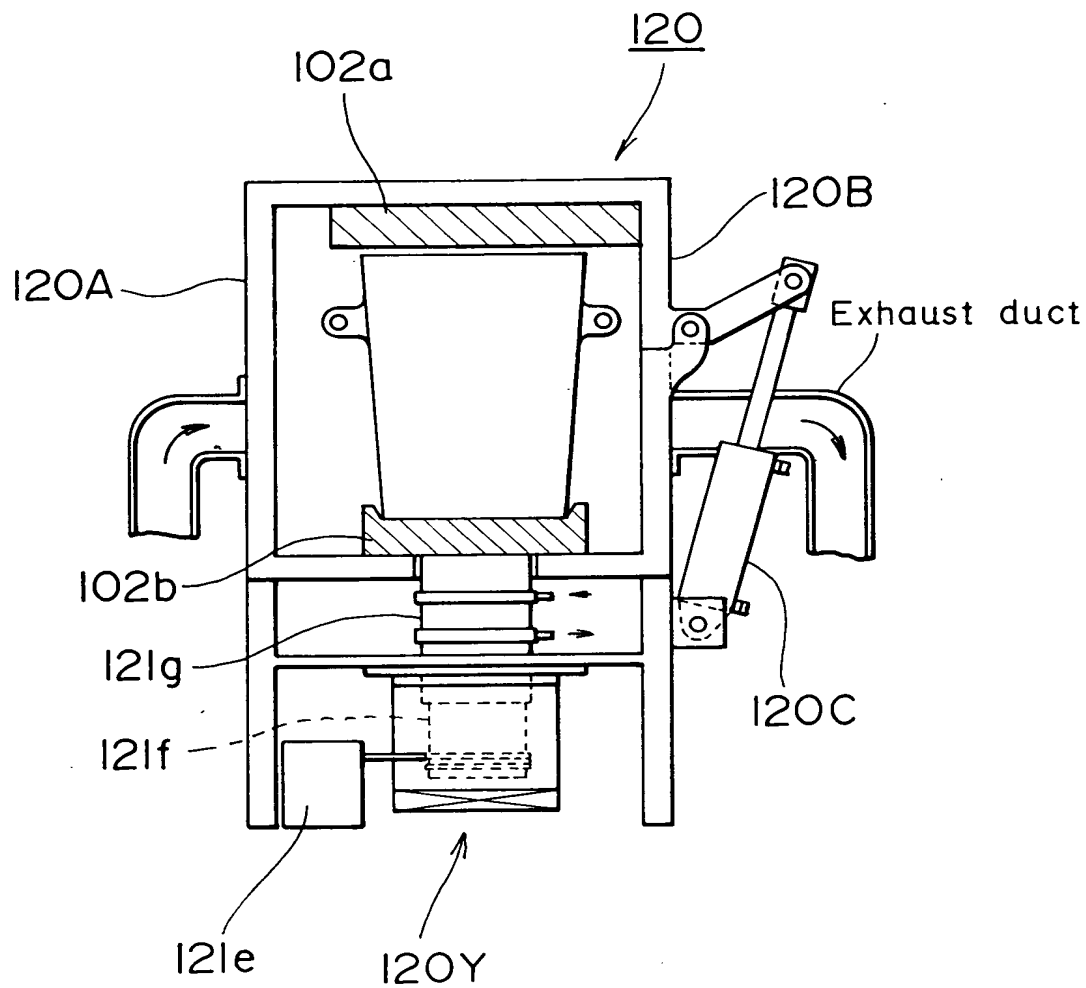


FIG. 54

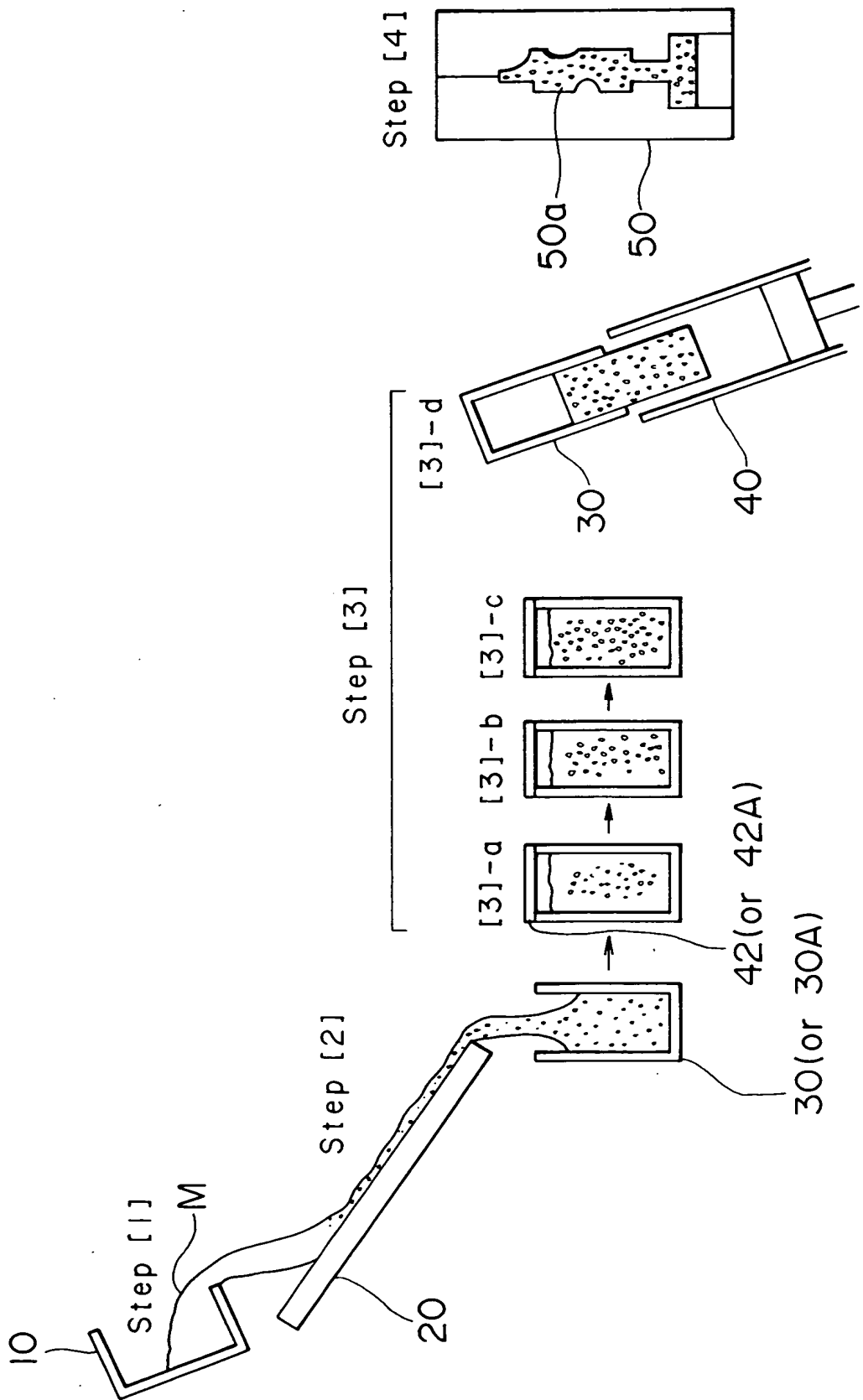
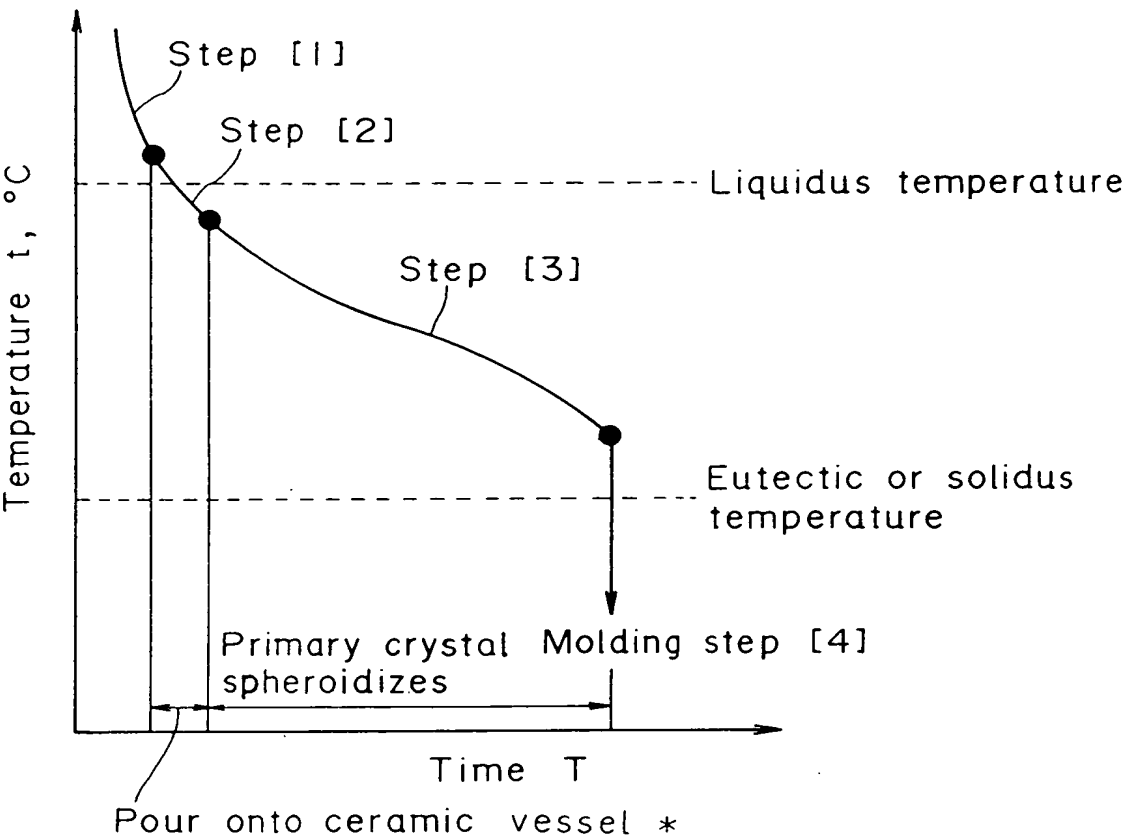


FIG. 55



* With or without cooling jig

FIG. 56

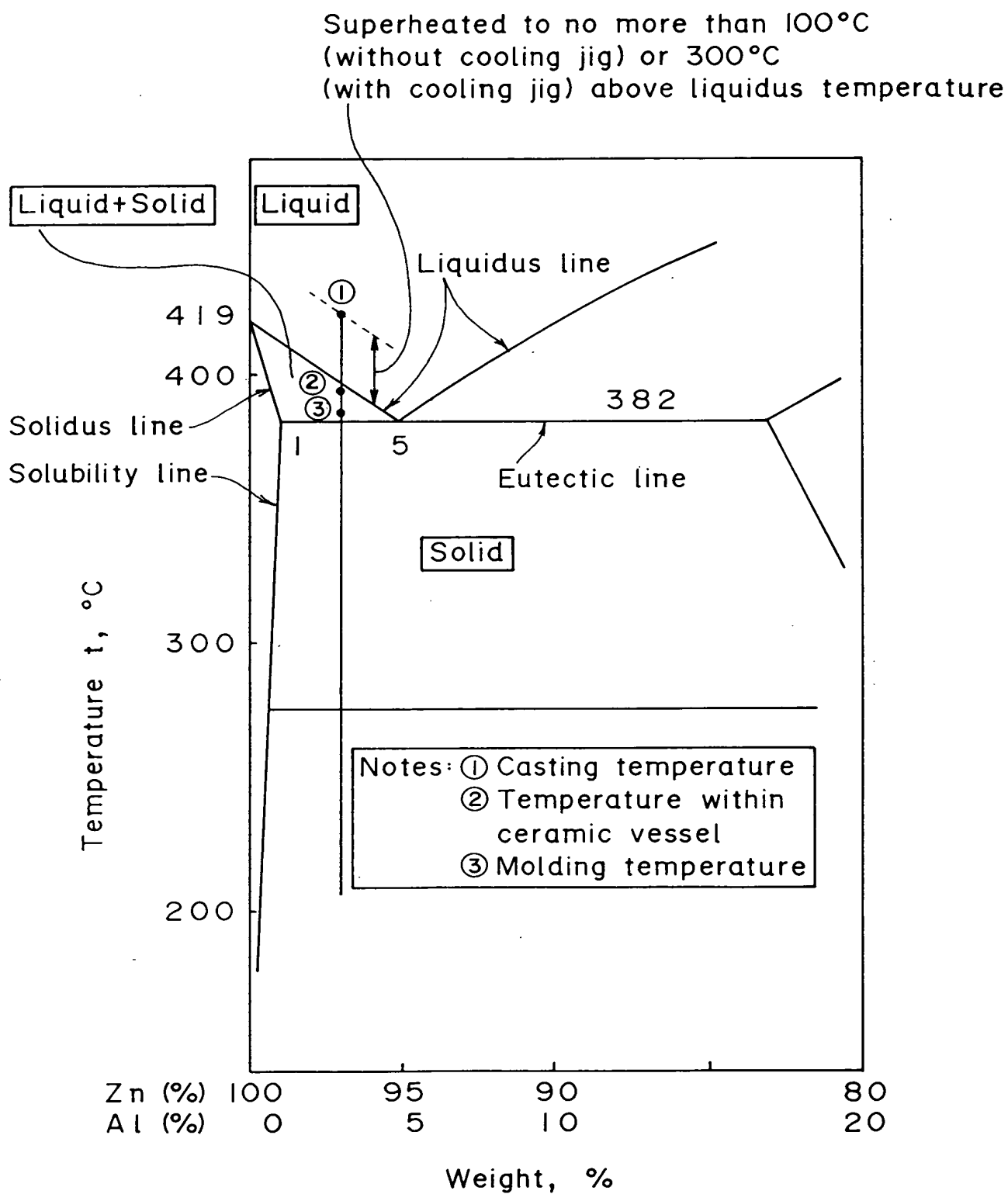


FIG. 57

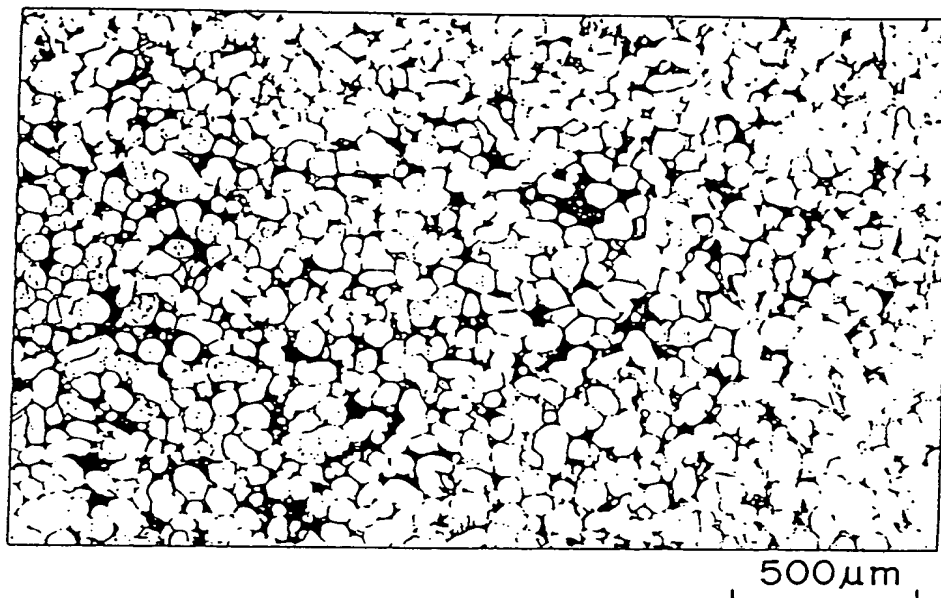


FIG. 58 Prior Art

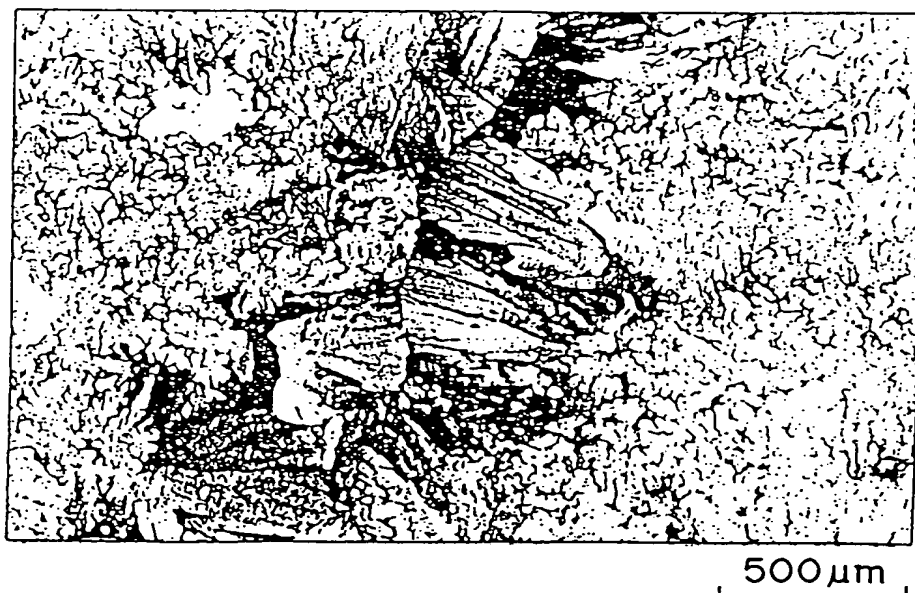


FIG. 59

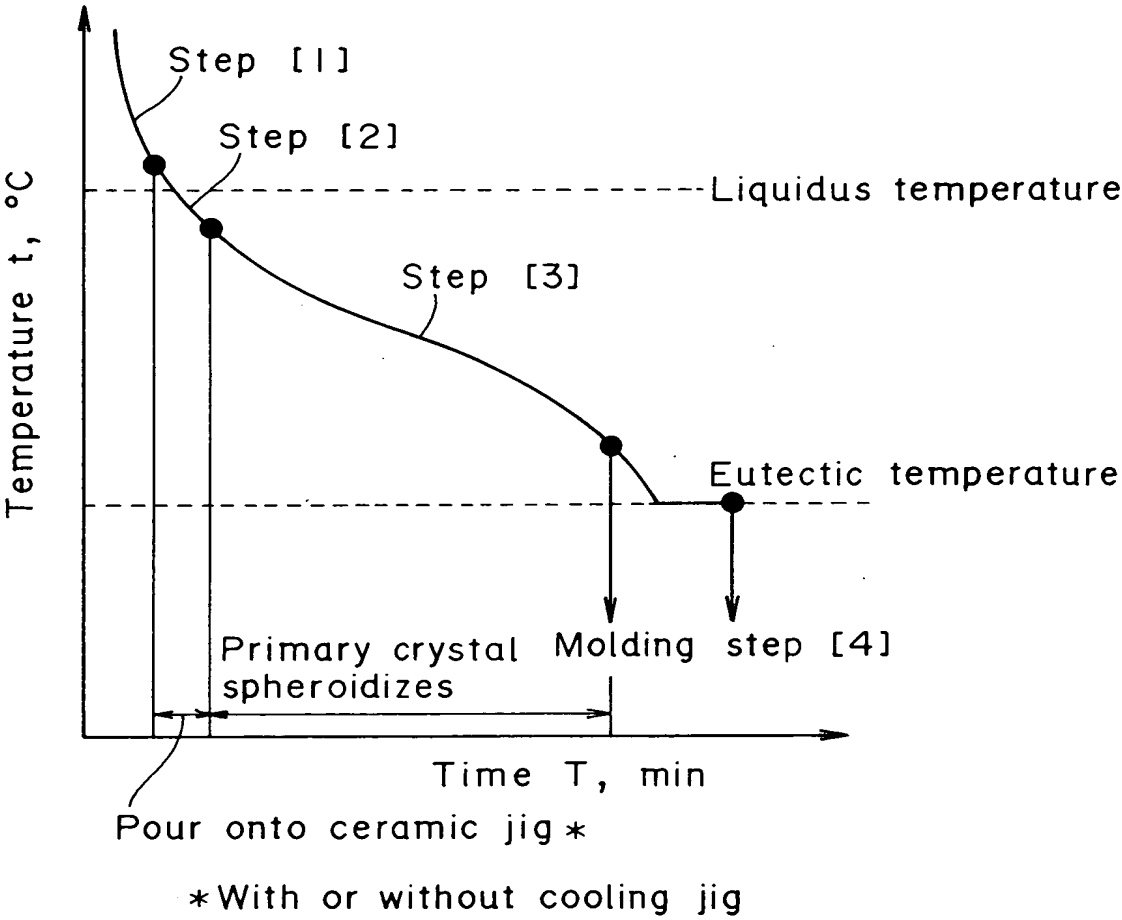


FIG. 60

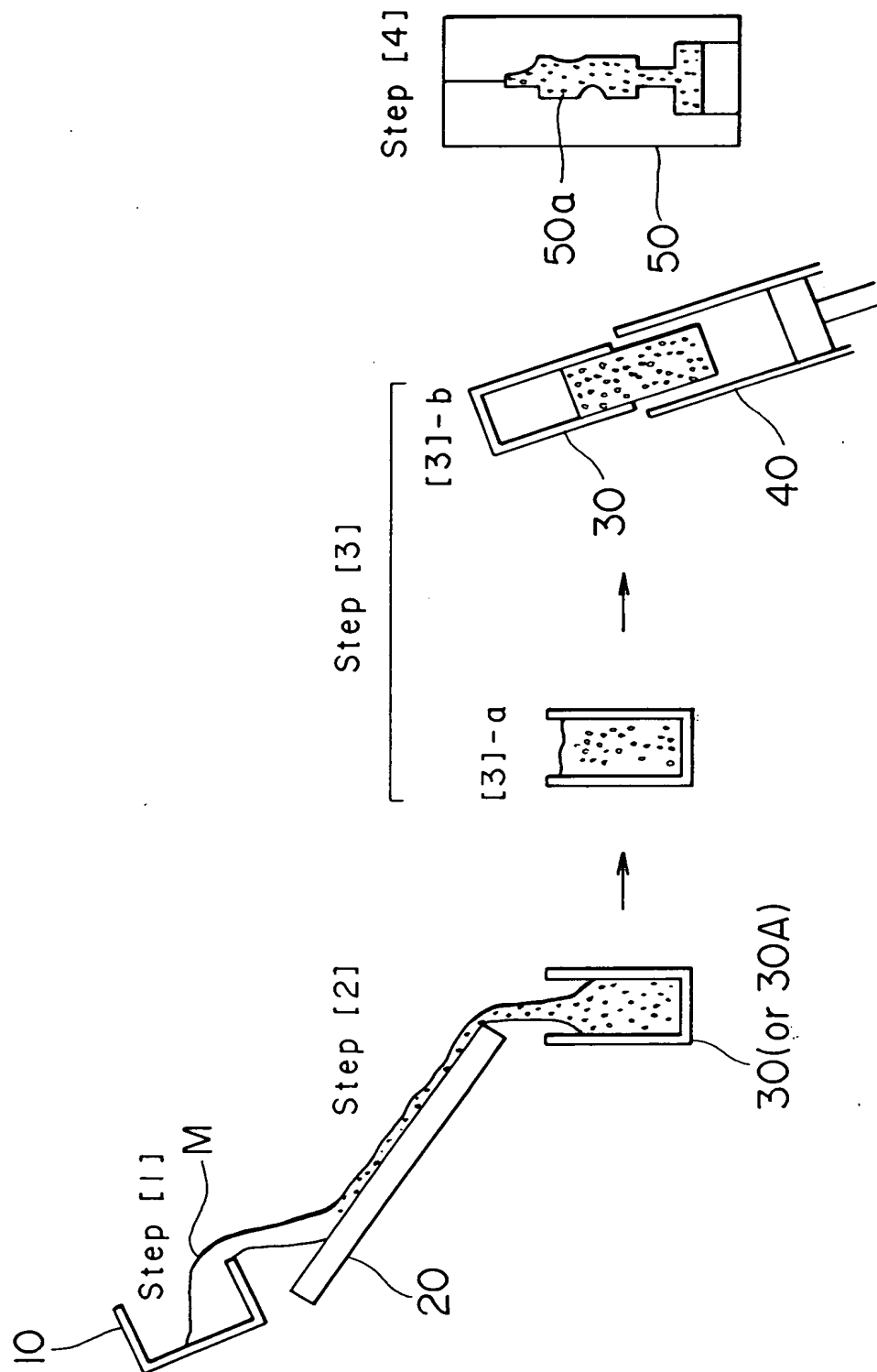


FIG. 6I

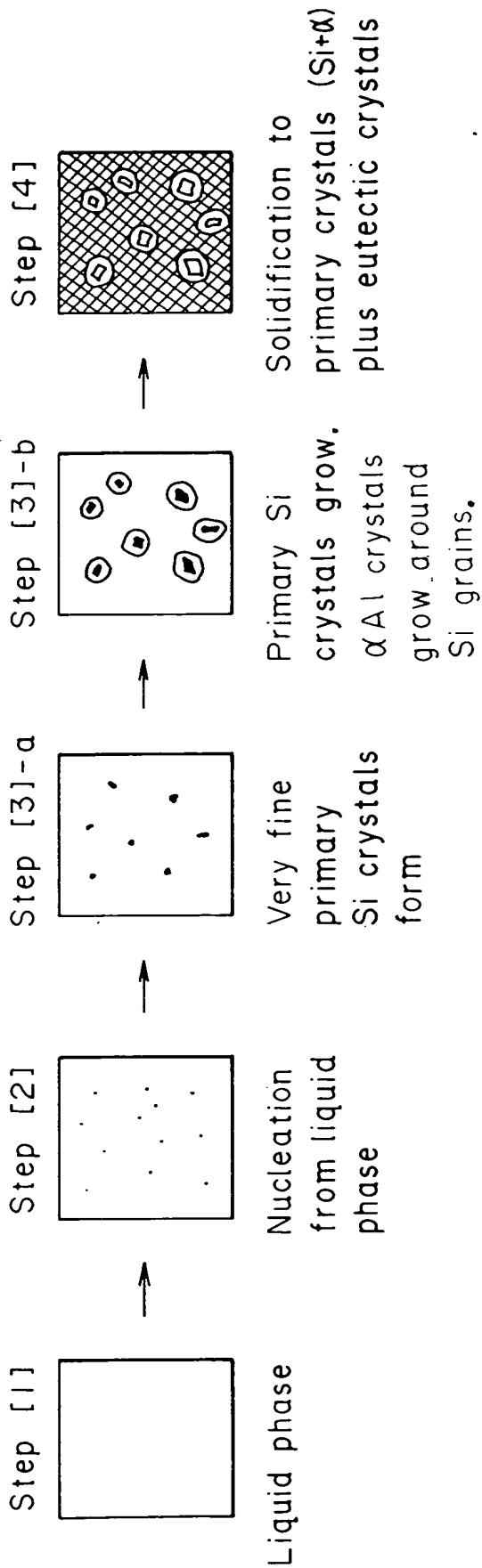
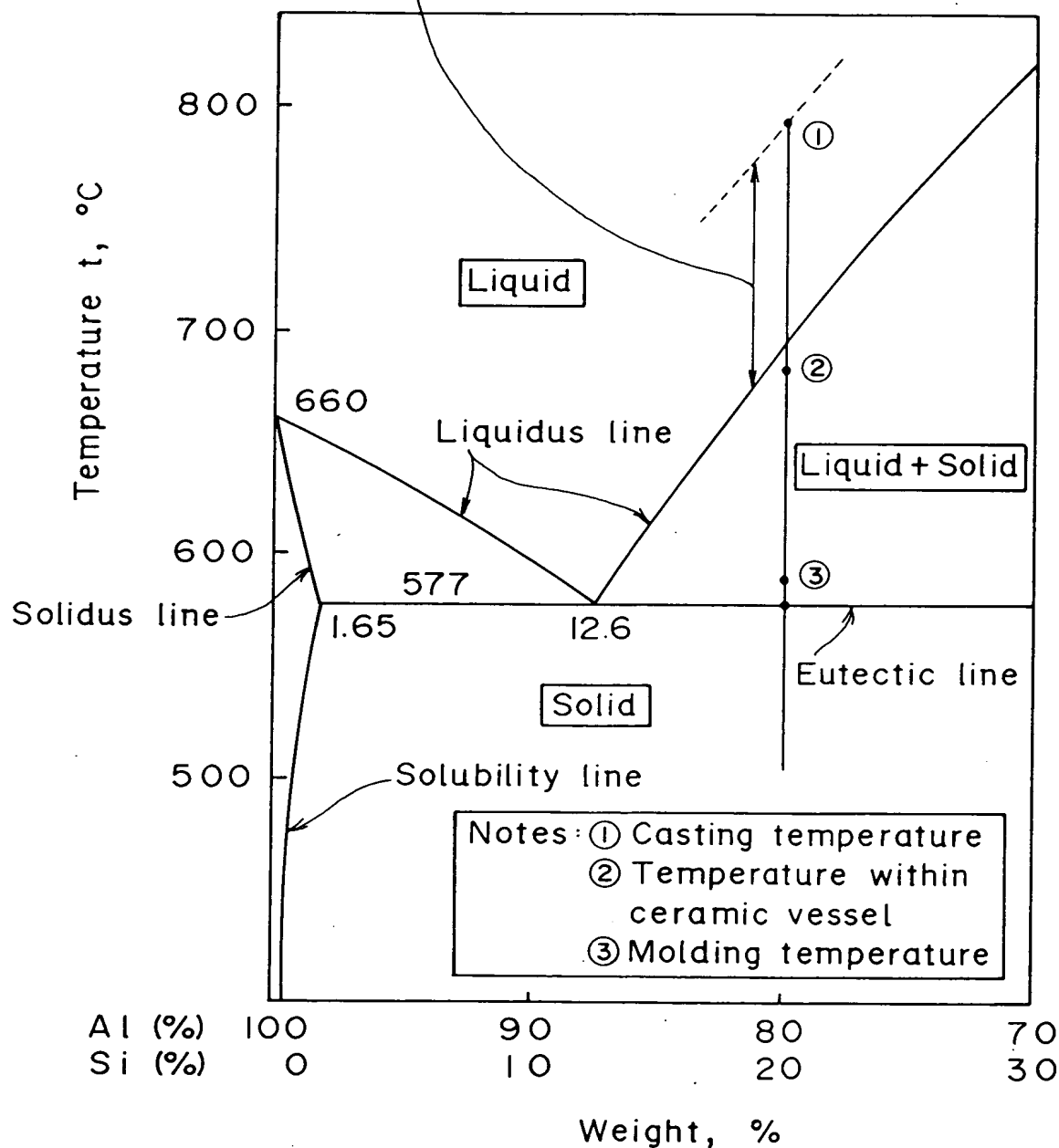


FIG. 62

Superheated to no more than 300°C
(with cooling jig) above liquidus temperature



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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118 672378

FIG. 63

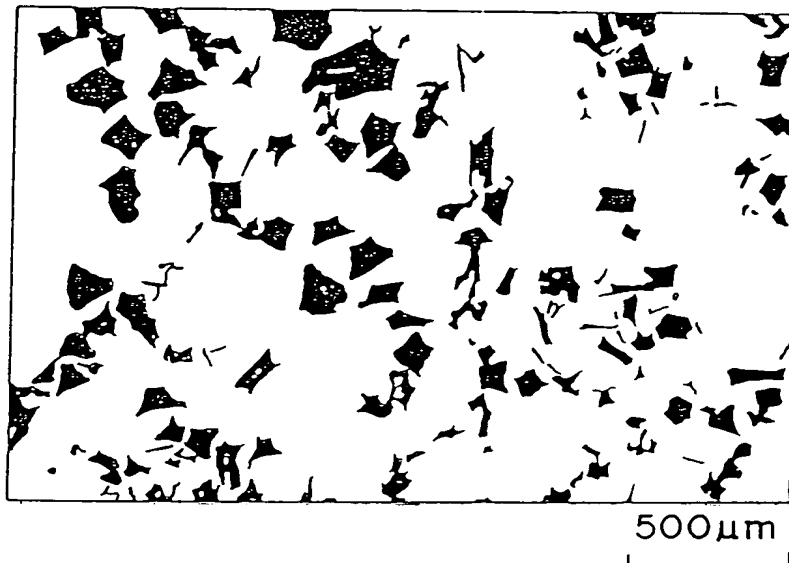


FIG. 64 Prior Art



FIG. 65

Superheated to no more than 100°C
(without cooling jig) or 300°C
(with cooling jig) above liquidus temperature

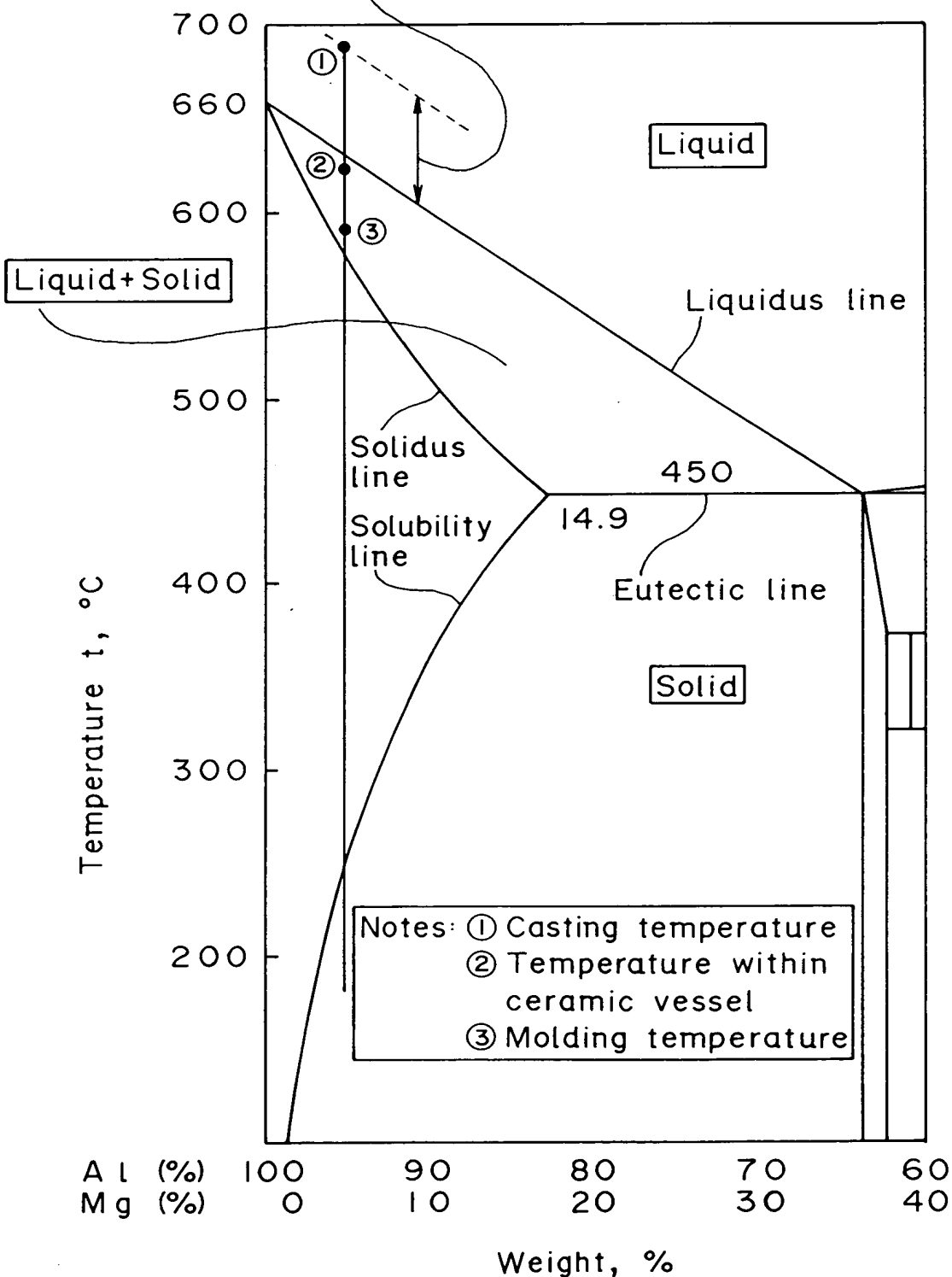


FIG. 66

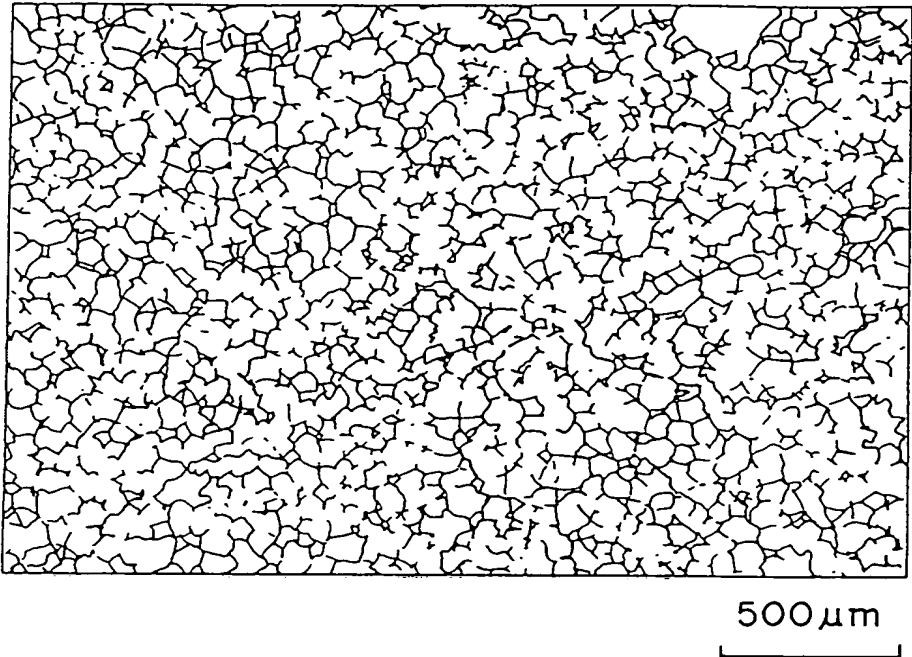


FIG. 67 Prior Art

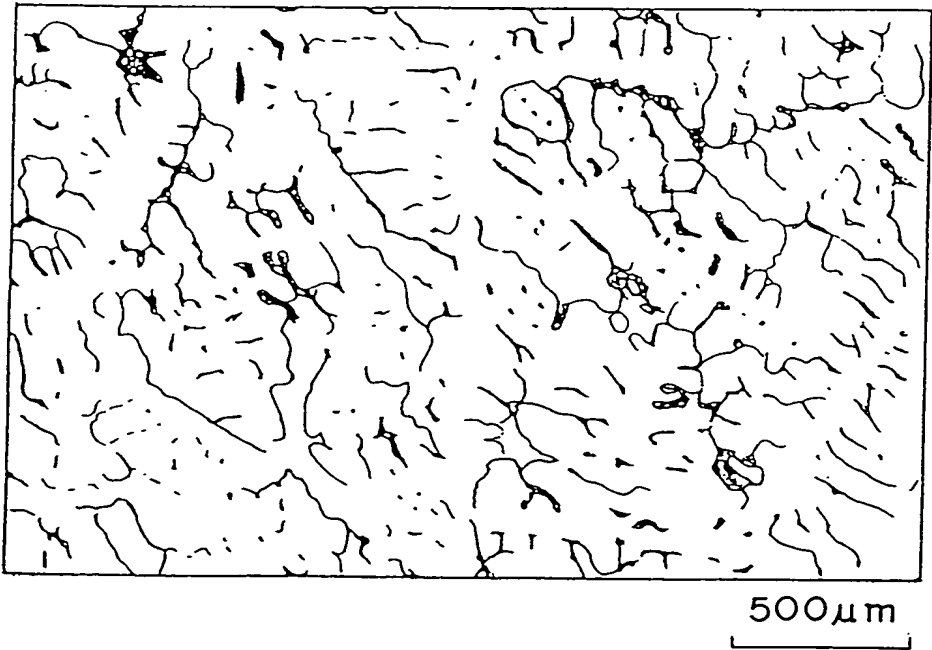


FIG. 68

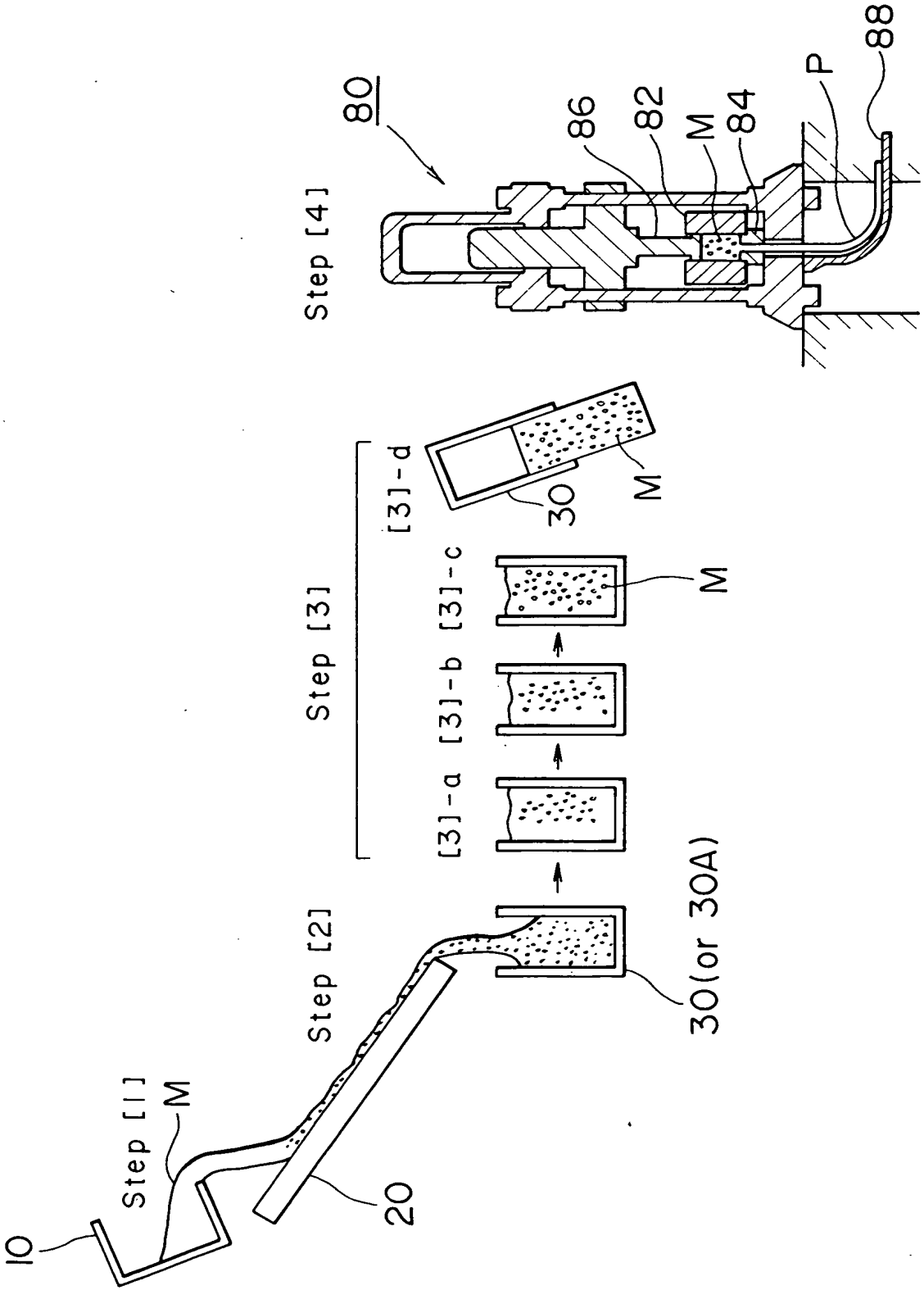


FIG. 69(a)

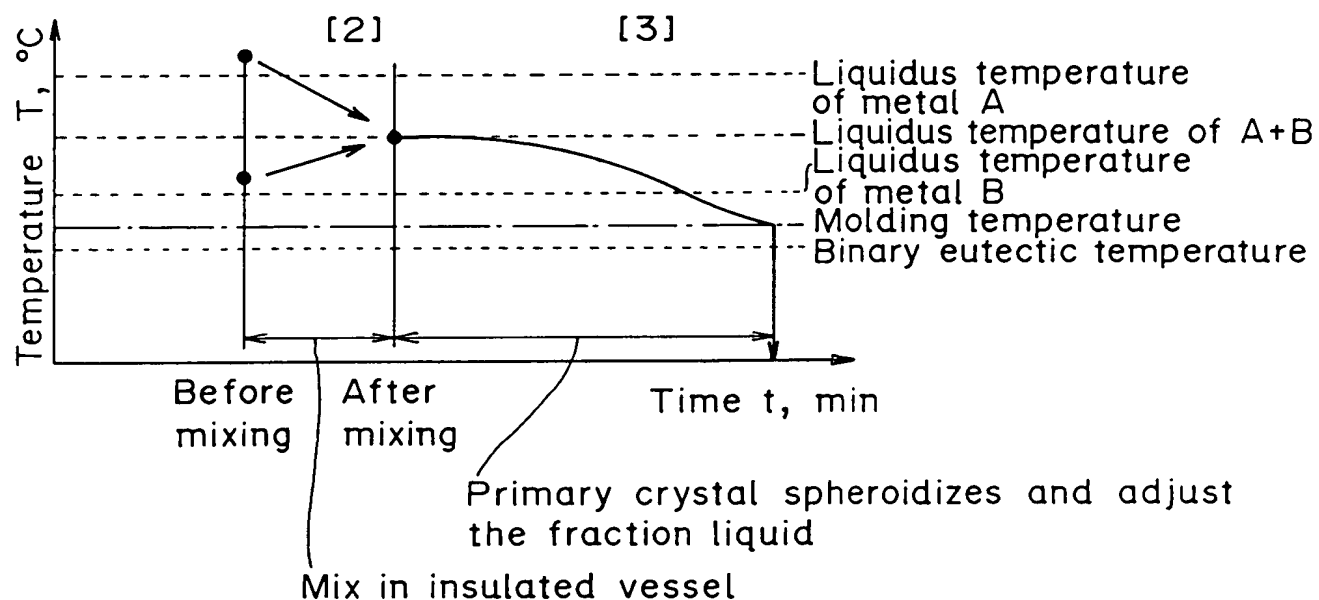


FIG. 69(b)

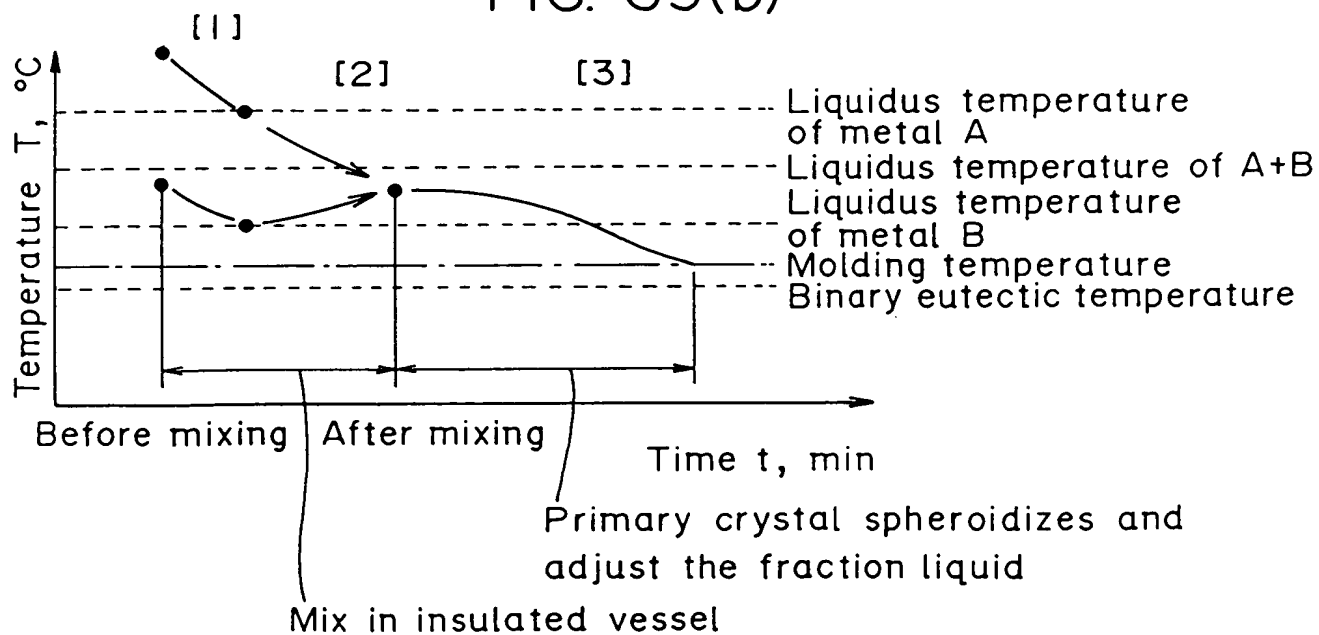


FIG. 70

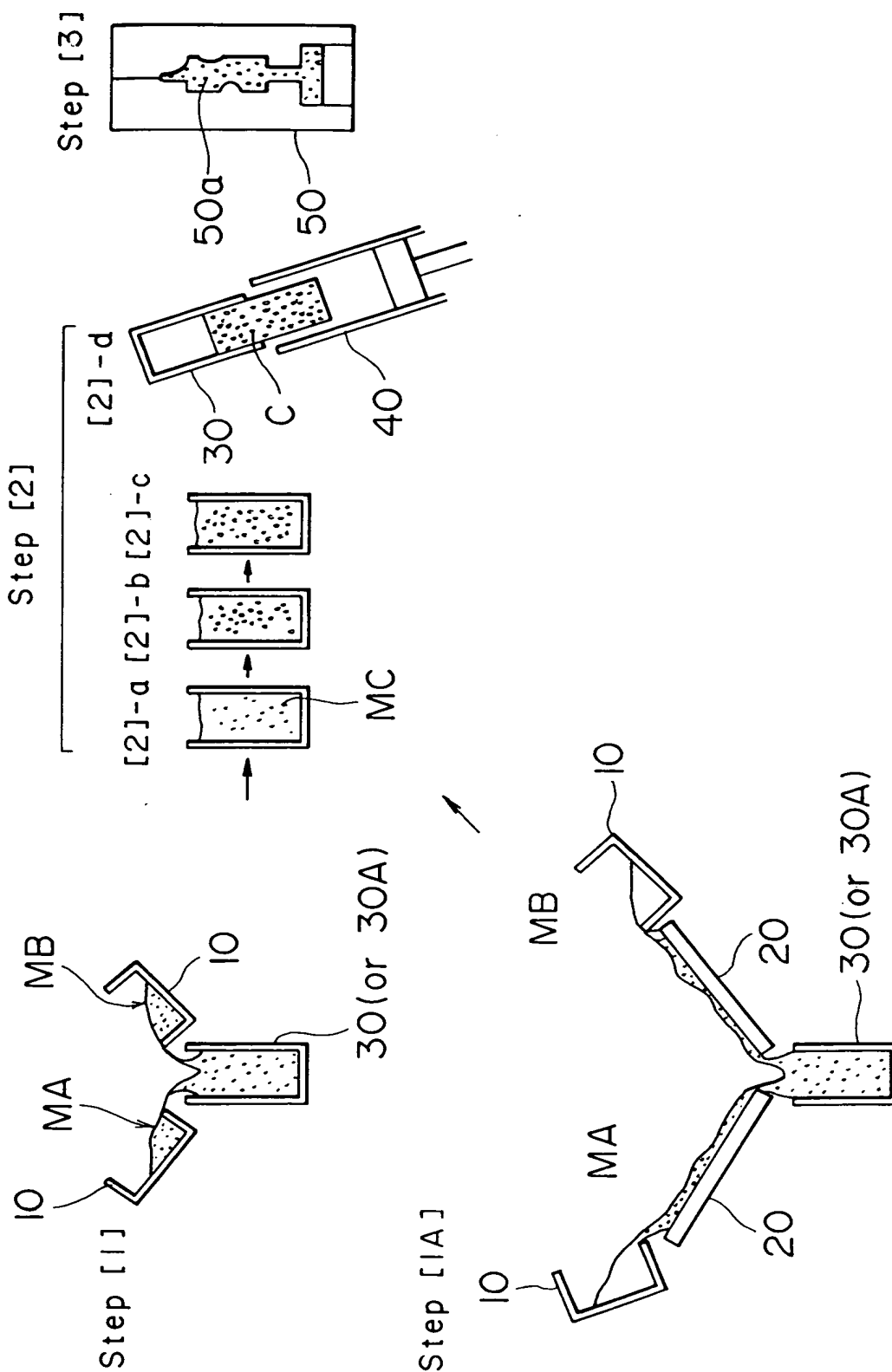


FIG. 71

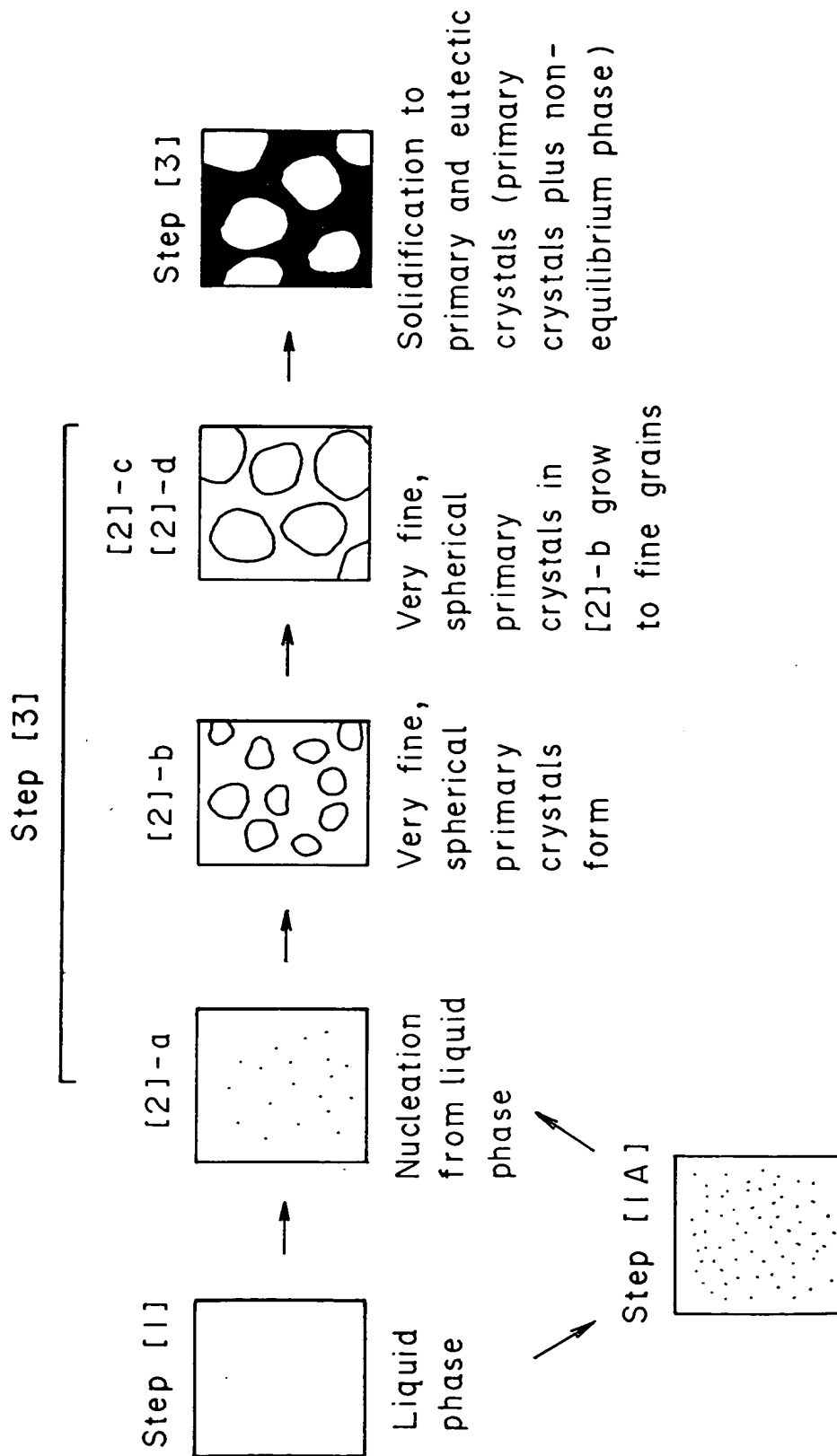


FIG. 72

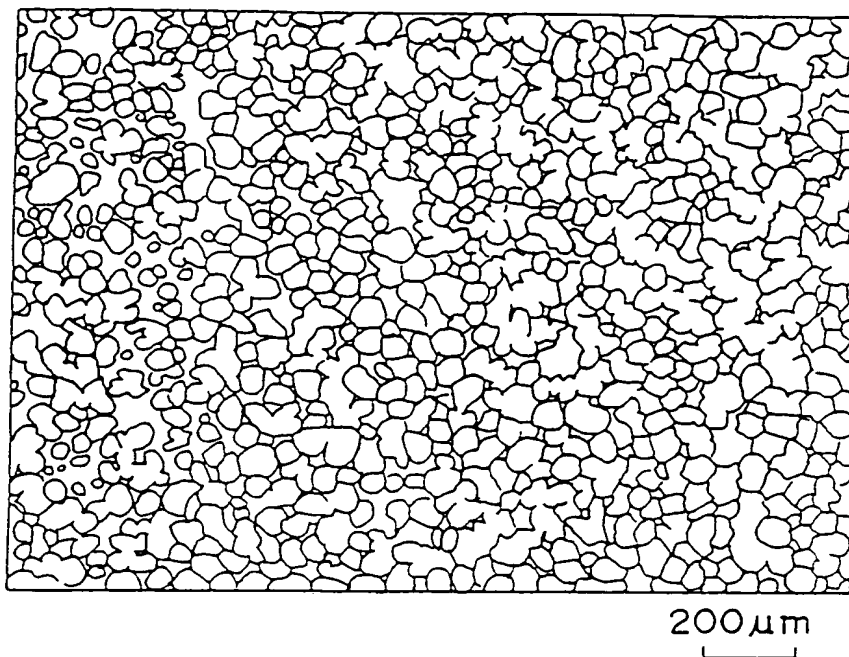


FIG. 73 Prior Art

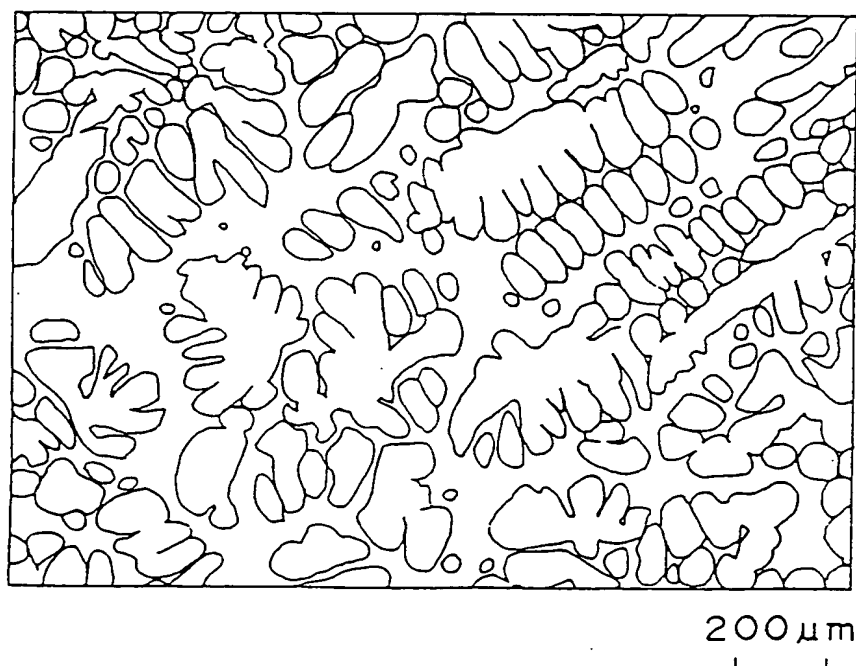


FIG. 74

